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**AD-741 700**

**RICKETTSIA**

**A DDC BIBLIOGRAPHY**

**DDC-TAS-72-32**

**MAY 1972**

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13. ABSTRACT	
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This bibliography contains 74 references on Rickettsia, with emphasis on Rickettsia Rickettsii and its carrier dermacentor andersoni. Among the topics included are: The biology of ticks transmitting rickettsia; spotted fever and ectoparasites from mammals, and potential disease relationship to vertebrates; and, the role of ticks of the genera dermacentor in comparison to their interrelationship with bloodsucking arthropods.

Corporate Author-Monitoring Agency, Subject, Title, and Personal Author Indexes are included.

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14. KEY WORDS	LINK A		LINK B		LINK C	
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ROBERT B. STEGMAIER, JR.  
Administrator  
Defense Documentation Center

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TITLE.....	T-1
PERSONAL AUTHOR.....	P-1

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-293 481

ARMY BIOLOGICAL LABS FREDERICK MD

EXPERIMENTAL INVESTIGATION OF DERMACENTOR SILVARUM  
TICKS AS CARRIERS OF VERNAL ENCEPHALITIS VIRUS (U)

DEC 62 IV SKRYNNIK, A. N. SRYZHKOVA, N. V. B.

UNCLASSIFIED REPORT

DESCRIPTORS: COMMUNICABLE DISEASES, DISEASE VECTORS,  
DISEASES, ENCEPHALITIS VIRUS, EPIDEMIOLOGY, HOST,  
SURVIVAL, TICKS, VIRUSES, WAVE TRANSMISSION (U)

AN EXPERIMENTAL INVESTIGATION OF DERMACENTOR SILVARUM  
TICKS AS CARRIERS OF VERNAL ENCEPHALITIS VIRUS IS  
PRESENTED.

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AD-426 746  
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TICKS.

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CONTRACT: DA-49-193-MD-2238

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DESCRIPTORS: (\*BIBLIOGRAPHIES, ARTHROPODS),  
(\*ARTHROPODS, BIBLIOGRAPHIES), DISEASES,  
DISEASE VECTORS, TICKS, MITES, DIPTERA,  
SIPHONAPTERA, LICE, PARASITES, VIRUSES,  
RICKETTSIALES, SPIROCHAETALES, PROTOZOA,  
MEDICAL RESEARCH, PUBLIC HEALTH.

(U)

IDENTIFIERS: 1962, USSR.

(U)

ANNOTATED BIBLIOGRAPHY OF RESEARCH IN USSR ON MEDICALLY  
IMPORTANT ARTHROPODS AND PARASITIC DISEASES, VOLUME II,  
NO. 10.

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AD-420 951

OLD DOMINION COLL NORFOLK VA

THE ECOLOGY OF TICKS TRANSMITTING ROCKY MOUNTAIN SPOTTED FEVER IN THE EASTERN UNITED STATES. (U)

DESCRIPTIVE NOTE: ANNUAL PROGRESS REPT., 1 JUNE 63-71  
JAN 64,

FEB 64 87P SONENSHINE, DANIEL E. I

CONTRACT: DA49 193MD2434

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*ECOLOGY, TICKS); (\*TICKS, ECOLOGY), DISEASE VECTORS, RICKETTSIA, BEHAVIOR, REPRODUCTION (PHYSIOLOGY), HUMIDITY, DISTRIBUTION, CLIMATOLOGY, TEMPERATURE (U)

IDENTIFIERS: 1964, ROCKY MOUNTAIN SPOTTED FEVER (U)

FIELD AND LABORATORY STUDIES PERTAINING TO THE ECOLOGY OF DERMACENTOR VARIABILIS (PRIMARILY) IN RELATION TO TRANSMISSION OF ROCKY MOUNTAIN SPOTTED FEVER ARE REPORTED. ISOLATION OF RICKETTSIA RICKETTSII WAS MADE FROM 18 OF 36 TICK POOLS COLLECTED AT A 40 ACRE STUDY AREA. A VEGETATIVE SURVEY OF THE STUDY AREA WAS DONE TO DETERMINE THE EXTENT OF CORRELATIONS BETWEEN THE DISTRIBUTION OF INFECTIOUS FOCI, TICK DISTRIBUTION, AND OTHER RELATED PHENOMENA. CORRELATIVE ANALYSES ARE IN PROGRESS. THE TOTAL ADULT DERMACENTOR VARIABILIS POPULATION WAS MEASURED WITH A MARK AND RECAPTURE TECHNIQUE; DISTRIBUTION, MIGRATION, AND OTHER ASPECTS OF THE ECOLOGY OF THIS SPECIES ARE ALSO REPORTED. LABORATORY STUDIES ON BEHAVIOR WERE INITIATED WITH TEMPERATURE CONTROLLED SYSTEMS TO PROVIDE HUMIDITY GRADIENTS. UNFED NYMPHS EXHIBITED A STRONG TENDENCY TO REMAIN IN HUMID AREAS. OVIPOSITION, HATCHING, AND LONGEVITY AT DIFFERENT RELATIVE HUMIDITIES WERE MEASURED. OVIPOSITION WAS LARGELY INDEPENDENT OF HUMIDITY, BUT HATCHING WAS GREATLY REDUCED AT HUMIDITIES BELOW 65%; SURVIVAL WAS ALSO GREATLY CURTAILED AT LOWER HUMIDITIES. STUDIES ON THE DYNAMICS OF FEEDING IN D. VARIABILIS ARE ALSO REPORTED. (AUTHOR) (U)

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AD-433 870  
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CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN, AND CHINESE  
LITERATURE. VOLUME III, NO. 4. (U)

64 14P ANASTOS, GEORGE ;  
CONTRACT: DA49 193MD222A

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SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*BIBLIOGRAPHIES, INSECTS), (\*INSECTS,  
BIBLIOGRAPHIES), TICKS, MITES, DISEASES, DISEASE  
VECTORS, EPIDEMIOLOGY, VIRUSES, DIPTERA, LICE,  
PARASITES, SPIROCHAETACEAE, RICKETTSIA, IMMUNOLOGY (U)  
IDENTIFIERS: ENTOMOLOGY, 1964 (U)

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AD-606 517

FORDHAM UNIV BRONX N Y INST OF CONTEMPORARY RUSSIAN  
STUDIES

SELECTED ABSTRACTS FROM SOVIET BIOMEDICAL JOURNALS,  
SER. II, NO. 5, (U)

MAY 64 108P POLLITZER,ROBERT ;  
CONTRACT: DA-18-108-405-CML-867  
MONITOR: TT , 64 71478

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (+MICROBIOLOGY, +USSR), IMMUNITY,  
VACCINES, RICKETTSIA, VIRUSES, DISEASES,  
ANTIGENS + ANTIBODIES, TICKS, ARBOVIRUSES,  
INSECTS, ANIMALS, RODENTS, ECOLOGY, BACTERIA,  
EPIDEMIOLOGY, PASTEURELLA, ANTIBIOTICS,  
BIBLIOGRAPHIES, ABSTRACTS (U)

SELECTED ABSTRACTS FROM SOVIET BIOMEDICAL  
JOURNALS ARE LISTED. TOPICS INCLUDE IMMUNOLOGY,  
EPIDEMIOLOGY, BACTERIOLOGY, VIROLOGY, AND  
MICROBIOLOGY. (U)

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AD-609 043  
MARYLAND UNIV COLLEGE PARK

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
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LITERATURE, VOLUME 3, NO. 11, (U)

64 23P ANASTOS, GEORGE ;  
CONTRACT: DA49 193MD2238  
MONITOR: TT , 65 60425

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BIBLIOGRAPHIES), TICKS, MITES, RODENTS, DIPTERA,  
ARTHROPODS, BACTERIA, SPIROCHAETA, PROTOZOA, RICKETTSIA,  
ARBOVIRUSES, VIRUS DISEASES, INSECT CONTROL,  
INSECTICIDES, DISEASES, TOXICITY, EPIDEMIOLOGY, USSR,  
EASTERN EUROPE, CHINA (U)  
IDENTIFIERS: ENTOMOLOGY (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
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LITERATURE, VOLUME 3, NO. 12, (U)

64 16P ANASTOS, GEORGE ;  
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MONITOR: TT , 60 60426

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SUPPLEMENTARY NOTE:

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(\*DISEASE VECTORS, BIBLIOGRAPHIES), (\*INSECTS,  
BIBLIOGRAPHIES), TICKS, MITES, RODENTS, DIPTERA,  
ARTHROPODS, BACTERIA, SPIROCHAETA, PROTOZOA, RICKETTSIA,  
ARBOVIRUSES, VIRUS DISEASES, INSECT CONTROL,  
INSECTICIDES, DISEASES, TOXICITY, EPIDEMIOLOGY, USSR,  
EASTERN EUROPE, CHINA (U)  
IDENTIFIERS: ENTOMOLOGY (U)

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EUROPEAN, AND CHINESE LITERATURE IN MEDICAL  
ENTOMOLOGY. VOLUME 4, MITES.

(U)

64 119P

CONTRACT: DA49 193MD2238

MONITOR: TT 65 60428

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SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*INDEXES, MITES), (\*MITES, INDEXES),  
(\*DISEASE VECTORS, BIBLIOGRAPHIES), (\*BIBLIOGRAPHIES,  
DISEASE VECTORS), PARASITES, PARASITIC DISEASES,  
ANIMALS, DISEASES, RICKETTSIA, INSECTS, LARVAE, TICKS,  
INSECT CONTROL, INSECTICIDES, ECOLOGY, EASTERN EUROPE,  
USSR, CHINA (U)  
IDENTIFIERS: ENTOMOLOGY (U)

INDEX CATALOGUE TO RUSSIAN, CENTRAL AND EASTERN  
EUROPEAN, AND CHINESE LITERATURE IN MEDICAL ENTOMOLOGY.  
VOLUME 4, MITES.

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AD-610 155  
MARYLAND UNIV COLLEGE PARK

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOLUME IV, NUMBER 1, (U)

65 17P ANASTOS, GEORGE I  
CONTRACT: DA49 193MD229B

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SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*INSECTS, BIBLIOGRAPHIES),  
(\*BIBLIOGRAPHIES, INSECTS), TICKS, MITES, DIPTERA,  
SIPHONAPTERA, LICE, SPIROCHAETA, BLATTIDAE, BACTERIA,  
PROTOZOA, RICKETTSIA, PARASITES, HEMIPTERA, VIRUS  
DISEASES, DISEASE VECTORS, PEST CONTROL, USSR, EUROPE,  
CHINA (U)

IDENTIFIERS: ENTOMOLOGY (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
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65 23P ANASTOS, GEORGE ;  
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(\*BIBLIOGRAPHIES, INSECTS), (\*DISEASE VECTORS,  
BIBLIOGRAPHIES), TICKS, MITES, DIPTERA, SIPHONAPTERA,  
HEMIPTERA, LICE, BACTERIA, SPIROCHAETA, RICKETTSIA,  
PARASITES, VIRUS DISEASES, PEST CONTROL, INSECTICIDES,  
TOXICITY, USSR, EASTERN EUROPE, CHINA (U)  
IDENTIFIERS: ENTOMOLOGY (U)

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(U)

65 17P ANASTOS, GEORGE ;  
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MONITOR: TT , 65-62173

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(\*DISEASE VECTORS, BIBLIOGRAPHIES), (\*INSECTS,  
BIBLIOGRAPHIES), TICKS, MITES, DIPTERA, SIPHONAPTERA,  
LICE, SPIROCHAETA, BLATTIDAE, BACTERIA, PROTOZOA,  
RICKETTSIA, PARASITES, HEMIPTERA, VIRUS DISEASES, INSECT  
CONTROL, INSECTICIDES, DISEASES, EPIDEMIOLOGY, USSR,  
EASTERN EUROPE, CHINA (U)  
IDENTIFIERS: ENTOMOLOGY (U)

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AD-616 003

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CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
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LITERATURE, VOLUME IV, NUMBER 6,

(U)

65 18P ANASTOS, GEORGE ;  
CONTRACT: DA49 197MD2238  
MONITOR: TT , 65-62422

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SUPPLEMENTARY NOTE: SEE ALSO AD-613 668.

DESCRIPTORS: (\*INSECTS, BIBLIOGRAPHIES),  
(\*BIBLIOGRAPHIES, INSECTS), (\*DISEASE VECTORS,  
BIBLIOGRAPHIES), TICKS, MITES, DIPTERA,  
SIPHONAPTERA, LICE, RICKETTSIA, BACTERIA,  
SPIROCHAETA, PROTOZOA, PARASITES, VIRUSES,  
WORMS, IMMUNITY, PEST CONTROL, INSECTICIDES,  
ECOLOGY, EPIDEMIOLOGY, USSR, EASTERN EUROPE,  
CHINA

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IDENTIFIERS: ENTOMOLOGY

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CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
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LITERATURE. VOL. IV, NO. 7,

(U)

65 1BP ANASTOS, GEORGE ;  
CONTRACT: DA49 193MD2238

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-616 003.

DESCRIPTORS: (\*INSECTS, BIBLIOGRAPHIES), (\*DISEASE  
VECTORS, BIBLIOGRAPHIES), TICKS, MITES, DIPTERA,  
SIPHONAPTERA, LICE, INSECTICIDES, PEST CONTROL,  
ECOLOGY, BLATTIDAE, VIRUSES, BACTERIA,  
RICKETTSIA, SPIROCHAETA, WORMS, PARASITES,  
PARASITIC DISEASES, VIRUS DISEASES, IMMUNITY,  
EPIDEMIOLOGY, USSR, EASTERN EUROPE, CHINA

(U)

IDENTIFIERS: ENTOMOLOGY

(U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE.  
VOL. IV, NO. 7.

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AD-620 501

ARMY BIOLOGICAL LABS FREDERICK MD

NATURAL FOCUS OF TSUTSUGAMUSHI FEVER,

(U)

JUN 65 12P TARASEVICH, I. V. IKULAGIN, S.  
M. IKUDRYASHOVA, N. I. IGOPACHENKO, I. M. ISOMOV,

G. P. I.

PEPT. NO. TRANSLATION-1999

MONITOR: TT : 65-63607

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V41 N5 P19-24  
1964.

DESCRIPTORS: (\*RICKETTSIA TSUTSUGAMUSHI, DISEASE  
VECTORS), ECOLOGY, ANTIGENS + ANTIBODIES,  
DIAGNOSIS, MORPHOLOGY(BIOLOGY), RODENTS,  
TICKS, MITES, EMBRYONATED EGG TECHNIQUE, USSR

(U)

IDENTIFIERS: COMPLEMENT-FIXATION TESTS

(U)

AS A RESULT OF ZOOLOGO-PARASITOLOGICAL INVESTIGATIONS IT WAS ESTABLISHED THAT THE FAUNA OF SMALL MAMMALS AND TROMBICULID MITES OF SOUTHERN PRIMORYE IS ANALOGOUS TO THE FAUNA OF CARRIERS AND VECTORS OF R. TSUTSUGAMUSHI IN NORTH KOREA AND JAPAN. IT IS MADE UP MAINLY BY THE FOLLOWING SPECIES: APODEMUS AGRARIUS, MICROMYS MINUTUS, RATTUS NORVEGICUS CARACO, CRICETULUS TRITON, MICROTUS FORTIS, CROCIDURA LASIURA AND LEPTOTROMBIDIUM PALIDA, L. ORIENTALIS, L. PAVLOVSKYI, NEOTROMBICULA JAPONICA, N. TAMIYAI, N. MITAMURA. THREE POSITIVE RESULTS WERE OBTAINED DURING THE INVESTIGATION OF 128 SERA OF A. AGRARIUS IN THE REACTION OF COMPLEMENT FIXATION WITH SPECIFIC ANTIGEN FROM R. TSUTSUGAMUSHI (GILLIAM STRAIN). STRAINS OF RICKETTSIA WERE ISOLATED IN 6 OUT OF 17 BIOTESTS ON AP. AGRARIUS, IN 1 OUT OF 7 BIOTESTS FROM M. FORTIS, IN 1 TEST OUT OF 1 INVESTIGATION FROM C. TRITON, IN 1 TEST OUT OF 2 IN C. LASIURA. ALL TOLD 9 STRAINS OF RICKETTSIA WERE ISOLATED FROM THE STATED ANIMALS. AN ANALOGOUS CAUSATIVE AGENT WAS ISOLATED IN 6 BIOTESTS OUT OF 41 FROM THE LARVAE OF TROMBICULID MITES, REPRESENTED BY SPECIES OF LEPTOTROMBIDIUM PALLIDA, L. PAVLOVSKYI, L. ORIENTALIS, NEOTROMBICULA JAPONICA. BASED ON MORPHOLOGICAL, TINTORIAL, BIOLOGICAL AND SEROLOGICAL PROPERTIES, THE ISOLATED STRAINS WERE IDENTICAL TO R. TSUTSUGAMUSHI.

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AD-620 701  
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RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE. VOLUME IV, NO. 8, (U)

65 19P ANASTOS, GEORGE S  
CONTRACT: DA49 197MD2238

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*INSECTS, BIBLIOGRAPHIES), (\*DISEASE  
VECTORS, BIBLIOGRAPHIES), TICKS, DIPTERA,  
SIPHONAPTERA, MITES, LICE, RICKETTSIA,  
PARASITES, VETERINARY MEDICINE, ECOLOGY,  
EPIDEMIOLOGY, USSR, MIDDLE EASTERN EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE.  
VOLUME IV, NO. 8.

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RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOL. IV, NO. 9.

(U)

65 22P ELBL, ALENA I  
CONTRACT: DA49 193MD2238  
MONITOR: TT : 65-64002

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SUPPLEMENTARY NOTE:

I DESCRIPTORS: (\*INSECTS, DISEASE VECTORS), (\*DISEASE VECTORS, BIBLIOGRAPHIES), TICKS, MITES, DIPTERA, SIPHONAPTERA, LICE, BACTERIA, SPIROCHAETA, PROTOZOA, RICKETTSIA, VIRUS DISEASES, INFECTIOUS DISEASES, PARASITIC DISEASES, INSECTICIDES, USSR, EASTERN EUROPE, CHINA

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LITERATURE, VOLUME IV, NO. 10,

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65 22P ELBL, ALENA ;

CONTRACT: DA49 193MD2238

MONITOR: TT ; 65-64253

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DESCRIPTORS: (\*INSECTS, BIBLIOGRAPHIES), (\*DISEASE  
VECTORS, BIBLIOGRAPHIES), TICKS, MITES, DIPTERA,  
SIPHONAPTERA, LICE, BACTERIA, SPIROCHOETA,  
PROTOZOA, RICKETTSIA, PARASITES, PESTICIDES,  
INSECTICIDES, DISEASES, VIRUS DISEASES,  
EPIDEMIOLOGY, ECOLOGY, USSR, EASTERN EUROPE,  
CHINA

(U)

TRANSLATION OF RUSSIAN RESEARCH: CURRENT REFERENCES  
IN MEDICAL ENTOMOLOGY FROM RUSSIAN, CENTRAL AND  
EASTERN EUROPEAN AND CHINESE LITERATURE.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-624 159 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOLUME IV, NO. 11. (U)

65 23P EBL, ALENA S  
CONTRACT: DA-49-193-MD-2238  
MONITOR: TT, 65-64593

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, MITES,  
DIPTERA, SIPHONAPTERA, LICE, MITES,  
BACTERIA, SPIROCHAETA, PROTOZOA, RICKETTSIA,  
VIRUS DISEASES, PEST CONTROL, INSECT CONTROL,  
DISEASES, EPIDEMIOLOGY, USSR, EASTERN EUROPE,  
CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE,  
VOLUME IV, NO. 11.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-624 160 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

INDEX CATALOGUE TO RUSSIAN, CENTRAL AND EASTERN  
EUROPEAN, AND CHINESE LITERATURE IN MEDICAL  
ENTOMOLOGY. VOLUME VIII. RICKETTSIAL DISEASES. (U)

65 56P ELBL, ALENA ;  
CONTRACT: DA-49-193-MD-2238  
MONITOR: TT 65-64594

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-722 210.

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*RICKETTSIA, DISEASES), EPIDEMIOLOGY,  
PARASITES, INFECTIOUS DISEASES, LICE, TICKS,  
MITES, ARTHROPODS, RODENTS, HEMIPTERA,  
INSECTS, COXIELLA, RICKETTSIA TSUTSU GAMUSHI,  
USSR, EASTERN EUROPE, CHINA (U)

THE REFERENCES ARE ARRANGED ALPHABETICALLY BY  
AUTHOR ACCORDING TO EACH SPECIFIC DISEASE MENTIONED  
WHILE A LIST OF REFERENCES DEALING IN A NON-SPECIFIC  
WAY WITH ARTHROPOD BORNE RICKETTSIOSSES IS APPENDED.  
(AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-625 274 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOLUME 4, NO. 12, (U)

65 18P ELBL, ALENA ;  
CONTRACT: DA-49-193-MD-2238  
MONITOR: TT , 66-60060

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-624 159.

DESCRIPTORS: (+DISEASE VECTORS, INDEXES),  
(+INSECTS, DISEASE VECTORS), TICKS, MITES,  
DIPTERA, SIPHONAPTERA, LICE, BACTERIA,  
SPIROCHAETA, PROTOZOA, RICKETTSIA, VIRUS  
DISEASES, DISEASES, EPIDEMIOLOGY, USSR, EASTERN  
EUROPE, CHINA, PEST CONTROL, INSECT CONTROL (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOLUME 4, NO. 12.

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DDC REPORT BIRLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-627 736 6/7  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOL. 5, NO. 1. (U)

66 16P ELBL, ALENA I  
CONTRACT: DA-49-192-MD-2238  
MONITOR: TT , 66-60431

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-625 274.

DESCRIPTORS: (\*INSECTS, DISEASE VECTORS), (\*DISEASE  
VECTORS, INDEXES), TICKS, MITES, DIPTERA,  
SIP' NAPTERA, PROTOZOA, RICKETTSIA, PARASITIC  
DISEASES, VIRUS DISEASES, INSECT CONTROL, USSR,  
EASTERN EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE,  
VOL. 5, NO. 1.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-627 463 6/5 6/13  
WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

A CONTRIBUTION TO THE EPIDEMIOLOGY OF ROCKY MOUNTAIN  
SPOTTED FEVER IN THE EASTERN UNITED STATES; (U)

65 8P ATWOOD, EARL L. SLAMB, JOHN  
T. ,JR.; SONENSHINE, DANIEL E. I  
CONTRACT: PHS-AI-02218

UNCLASSIFIED REPORT

AVAILABILITY: PUBLISHED IN AMERICAN JOURNAL OF  
TROPICAL MEDICINE AND HYGIENE V14 N5 P821-37 1965.  
COPIES TO DDC USERS ONLY.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RICKETTSIA, DISEASES); TICKS;  
DISEASE VECTORS, EPIDEMIOLOGY, STATISTICAL  
ANALYSIS, ECOLOGY, ETIOLOGY, SERODIAGNOSIS,  
ANTIGENS + ANTIODIES, URBAN AREAS, RURAL AREAS,  
UNITED STATES, PUBLIC HEALTH, POPULATION,  
VIRGINIA (U)

EVIDENCE HAS BEEN PRESENTED WHICH SUGGESTS THAT THE  
TRUE INCIDENCE OF ROCKY MOUNTAIN SPOTTED FEVER IS  
CURRENTLY MUCH GREATER THAN THE NUMBER OF REPORTED  
CASES. AN EPIDEMIOLOGICAL STUDY OF ROCKY  
MOUNTAIN SPOTTED FEVER IN VIRGINIA HAS ALSO BEEN  
DESCRIBED. IT WAS OBSERVED THAT THE REGION WITH  
THE HIGHEST RATE OF DISEASE WAS THE PIEDMONT. IT  
WAS ALSO SHOWN THAT THE SUBURBAN AREAS ARE HIGH RISK  
LOCALITIES, WITH ONLY SLIGHTLY FEWER CASES THAN THE  
RURAL AREAS. ABANDONED LAND, EITHER ABANDONED  
FIELDS OR WOODLAND, AS WELL AS SMALL RODENT ACTIVITY,  
WAS ASSOCIATED WITH ALMOST ALL OF THE CASES STUDIED  
BY MEANS OF ON-SITE INVESTIGATIONS. CURRENTLY OR  
PREVIOUSLY INFECTED SMALL MAMMALS WERE PRESENT IN THE  
IMMEDIATE VICINITY OF CASE LOCATIONS INVESTIGATED AND  
WERE APPARENTLY SERVING AS A RESERVOIR OF THE  
INFECTIOUS AGENT. THE MANNER IN WHICH CERTAIN  
TRENDS IN LAND USE COMBINE TO INCREASE THE TICK  
HABITAT AREA WAS DISCUSSED, PARTICULARLY IN REGARD TO  
RECENT FIGURES ON THE ABANDONMENT OF CROPLAND,  
INCREASE IN HARDWOOD FORESTS, AND INCREASE IN LOGGING  
ACTIVITY. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-629 374 6/3 6/13  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE, VOLUME 5, NO. 2, (U)

66 14P ANASTOS, GEORGE ;  
CONTRACT: DA-49-193-MD-2238,  
MONITOR: TT , 66-60709

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, DIPTERA,  
MITES, SIPHONAPTERA, PEST CONTROL, BACTERIA,  
SPIROCHAETA, DISEASES, PROTOZOA, RICKETTSIA,  
VIRUS DISEASES, USSR, EASTERN EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE.  
VOLUME 5, NO. 2.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-634 279 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE. VOLUME V. NUMBER 4. (U)

66 14P ANASTOS, GEORGE I  
CONTRACT: DA-49-193-MD-2238,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-634 355

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, MITES,  
SIPHONAPTERA, DIPTERA, LICE, HEMIPTERA,  
ARTHROPODS, INSECT CONTROL, INSECTICIDES, PEST  
CONTROL, VIRUS DISEASES, PROTOZOA, RICKETTSIA,  
USSR, EASTERN EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-674 280 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE. VOLUME NO. V. NUMBER 5. (U)

66 12P ANASTOS, GEORGE I  
CONTRACT: DA-49-193-MD-2238.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-674 279.

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, MITES,  
SIPHONAPTERA, DIPTERA, HEMIPTERA, ARTHROPODS,  
INSECT CONTROL, INSECTICIDES, PESTICIDES, VIRUS  
DISEASES, RICKETTSIA, PROTOZOA, BACTERIA,  
SPIROCHAETA, USSR, EASTERN EUROPE, CHINA (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-634 355 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE. VOLUME V. NUMBER 2. (U)

66 12P ANASTOS, GEORGE I  
CONTRACT: DA-49-193-MD-2278;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-629 374.

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, DIPTERA,  
MITES, SIPHONAPTERA, ARTHROPODS, BACTERIA,  
SPIROCHAETA, RICKETTSIA, VIRUS DISEASES, USSR,  
EASTERN EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE LITERATURE.  
VOLUME V. NUMBER 2.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-675 178 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM  
RUSSIAN, CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE. VOLUME V. NUMBER 6. (U)

66 13P ANASTOS, GEORGE S  
CONTRACT: DA-49-193-MD-2238,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (\*DISEASE VECTORS, INDEXES),  
(\*INSECTS, DISEASE VECTORS), TICKS, DIPTERA,  
MITES, SIPHONAPTERA, LIÇE, ARTHROPODS, INSECT  
CONTROL, VIRUS DISEASES, PROTOZOA, BACTERIA,  
SPIROCHAETA, RICKETTSIA, DISEASES, USSR, EASTERN  
EUROPE, CHINA (U)

CURRENT REFERENCES IN MEDICAL ENTOMOLOGY FROM RUSSIAN,  
CENTRAL AND EASTERN EUROPEAN AND CHINESE  
LITERATURE.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-642 483 6/13 6/5  
ARMY BIOLOGICAL CENTER FREDERICK MD

DISCUSSION,

(U)

66 3P GORELICK,ARTHUR N. ;

UNCLASSIFIED REPORT

AVAILABILITY: PUBLISHED IN BACTERIOLOGICAL REVIEWS  
V30 N3 P644-5 SEP 1966.

DESCRIPTORS: (+RICKETTSIA RICKETTSII, DISEASES);  
TICKS; INFECTIONS, AIRBORNE, AEROSOLS,  
ANTIBIOTICS, ETIOLOGY, RESISTANCE(BIOLOGICAL);  
MUTATIONS, REVIEWS

(U)

REPRINT: AEROGENIC TRANSMISSION OF ROCKY MOUNTAIN  
SPOTTED FEVER.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-644 216 6/2  
OLD DOMINION COLL NORFOLK VA DEPT OF BIOLOGY

THE ECOLOGY OF TICKS TRANSMITTING ROCKY MOUNTAIN SPOTTED FEVER IN A STUDY AREA IN VIRGINIA, (U)

MAR. 66 29P SONENSHINE, DANIEL E. SATWOOD,  
EARL L. SLAMB, JOHN T. I  
CONTRACT: DA-49-193-MD-2439

UNCLASSIFIED REPORT

AVAILABILITY: PUBLISHED IN ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA V59 N6 P1234-62 NOV 1966.

DESCRIPTORS: (\*TICKS, \*VIRGINIA), (\*RICKETTSIA, RICKETTSII, DISEASES), ECOLOGY, PLANTS(BOTANY), DISTRIBUTION, GRASSES, TREES, LIFE CYCLE, PERIODIC VARIATIONS, PARASITES, CONTROL, DISEASE VECTORS, ENTOMOLOGY (U)

THE PURPOSE OF THE WORK WAS TO OBTAIN A MORE COMPLETE UNDERSTANDING OF THE BIONOMICS OF TICK VECTORS WHICH MAY BE IMPORTANT IN THE MAINTENANCE OF ROCKY MOUNTAIN SPOTTED FEVER IN AN ENZOOTIC FOCUS. QUANTITATIVE STUDIES ON VECTOR POPULATION DYNAMICS AND DISTRIBUTION, AS WELL AS OTHER BIOTIC AND ABIOTIC FACTORS WHICH INFLUENCE THESE SPECIES, MAY CONTRIBUTE TO THE ELUCIDATION OF THE MECHANISM OF PERPETUATION OF THE DISEASE IN NATURE. THIS MAY IN TURN CONTRIBUTE TO AN INCREASED PREDICTABILITY OF HUMAN INVOLVEMENT. ALTHOUGH GENERAL STUDIES OF THE ECOLOGY OF TICKS ARE WORTHWHILE IN THEMSELVES, ONLY THOSE ECOLOGICAL PHENOMENA CONSIDERED BY THE AUTHORS TO BE IMPRTANT TO UNDERSTANDING ROCKY MOUNTAIN SPOTTED FEVER ECOLOGY WERE INVESTIGATED. THESE STUDIES WERE DONE SIMULTANEOUSLY WITH STUDIES ON RICKETTSIA RICKETTSII NATURAL INFECTION. HOWEVER, THIS PAPER IS CONCERNED SOLELY WITH THE KNOWN OR POTENTIAL TICK VECTORS ESTABLISHED IN THE LOCALITY USED AS A STUDY AREA. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-644 973 6/3 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

STUDY OF THE ROLE OF TICKS OF THE GENERA DERMACENTOR  
AND HAEMAPHYSALIS IN TRANSMISSION OF BRUCELLOSIS, (U)

60 23P VOLKOVA, A. A. ;GREBENYUK, R. V.  
ITIMOFEEV, A. F. ;GALIEV, R. S. ;  
MONITOR: NAMRU-3 TRANS-134

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF AKADEMIYA NAUK  
KIRGIZSKOI SSR, FRUNZE, IZVESTIYA, SERIYA  
BIOLOGICHESKIH NAUK, V2 N7 P5-24 1960.

DESCRIPTORS: (\*TICKS, DISEASE VECTORS),  
(\*BRUCELLA, DISEASES), INFECTIONS, LIFE CYCLE,  
SERODIAGNOSIS, CULTURE MEDIA, MAMMALS, GUINEA  
PIGS, USSR (U)

IN A COMPARATIVE STUDY OF INFECTION OF IXODID TICKS  
OF THE GENERA DERMACENTOR AND HAEMAPHYSALIS WITH  
BRUCELLEAE OF THE TYPES MELITENSIS AND BOVIS, THE  
HIGHEST (82%) INFECTION WAS OBTAINED WITH STRAIN  
MELITENSIS. TICKS INFECTED WITH FRESHLY ISOLATED  
STRAIN BR. BOVIS NO. 7, PRODUCED POSITIVE RESULTS  
OF INFECTION IN GUINEA PIGS IN 65.3% OF CASES, AND  
INFECTION WITH STRAIN BR. BOVIS NO. 28, ISOLATED  
MANY YEARS AGO, IN ONLY 25% OF CASES.  
HAEMAPHYSALIS TICKS SHOWED VERY HIGH SUSCEPTIBILITY  
TO INFECTION WITH BRUCELLEAE, FROM 12 TEST WITH  
THREE STRAINS OF BRUCELLEAE, ONLY ONE GAVE A NEGATIVE  
RESULT. THE TWO TESTS WITH STRAIN BR. BOVIS  
NO. 28 GAVE POSITIVE RESULTS IN ALL INVESTIGATIONS.  
TRANSOVARIAL TRANSMISSION OF BRUCELLA OF THE TYPE  
MELITENSIS BY H. HARBURTONI FEMALE THROUGH EGGS TO  
LARVAE WAS PROVED. STRAIN BR. BOVIS K-4 WAS  
ISOLATED BY BIOLOGICAL TEST FROM D. PAVLOVSKYI  
FEMALES COLLECTED FROM SHEEP. IN EXPERIMENTS ON  
GUINEA PIGS INFECTED WITH BR. BOVIS DURING THE  
APPEARANCE OF BRUCELLOSIS IN THE FORM OF LOCAL  
INFECTION OF THE LYMPHATIC NODE, AN AGGLUTINATION  
REACTION WAS ABSENT IN BOTH CASES AND CF WAS  
POSITIVE IN ONLY ONE CASE. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-644 998 6/3 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

COMPARATIVE DATA ON INFECTION OF TICKS OF THE GENUS  
DERMACENTOR WITH BRUCELLEAE, (U)

61 2P VOLKOVA, A. A.; GREBENYUK, R. V.  
TIMOFEEV, A. F.;  
MONITOR: NAMRU-3 TRANS-135

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF AKADEMIYA NAUK  
KAZAKHSKOI SSR, ALMA-ATA, N3 P106-7 1961.

DESCRIPTORS: (\*TICKS, DISEASE VECTORS),  
(\*BRUCELLA, DISEASES), INFECTIONS, LIFE CYCLE,  
GUINEA PIGS, ETIOLOGY, USSR (U)

TRANSLATION OF RUSSIAN RESEARCH: COMPARATIVE DATA ON  
INFECTION OF TICKS OF THE GENUS DERMACENTOR WITH BRUCELLEAE.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-645 000 6/3 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

STUDY OF NATURAL FOCI OF TICK RICKETTSIOSIS IN  
SOUTHWESTERN KIRGIZIA. (U)

63 7P PRORESHNAYA, T. L. IRAPORT, L.  
P. ;  
MONITOR: NAMRU-3 TRANS-121

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V40 N12 P56-60  
1963.

DESCRIPTORS: (\*TICKS, ECOLOGY), (\*COXIELLA,  
DISEASES), (\*DISEASE VECTORS, TICKS),  
RICKETTSIA, MAMMALS, PARASITES, ETIOLOGY,  
INFECTIONS, EPIDEMIOLOGY, RODENTS,  
SERODIAGNOSIS, ANTIGENS + ANTIBODIES, USSR (U)

AT THE SOUTHWEST OF KIRGHIZIA, NATURAL FOCI OF  
THE RICKETTSIOSIS WERE FOR THE FIRST TIME REVEALED IN  
1955 BY PRORESHNAYA AND IVANOV WHO ESTABLISHED  
Q FEVER INFECTION AND TICK-BITE RICKETTSIOSIS IN  
IXODES TICKS. WILD ANIMALS - RESERVOIRS OF  
RICKETTSIOSIS WERE UNKNOWN. IN EXAMINING OF AREAS  
OF THE SOUTHWESTERN KIRGHIZIA IN 1960 THE AUTHORS  
HAVE SEROLOGICALLY ESTABLISHED THAT MERIONES  
ERYTHROURUS WERE INFECTED WITH R. BURNETI AND D.  
SIBIRICUS. WIDE DISTRIBUTION AND CONSIDERABLE  
NUMBERS OF THESE ANIMALS, AND RELATIVELY HIGH NUMBER  
OF TICKS ON THEM INDICATED THAT THESE RODENTS WERE OF  
GREAT SIGNIFICANCE IN THE EPIZOOTOLOGY OF TICK  
RICKETTSIOSIS IN THE SOUTHWESTERN PART OF  
KIRGHIZIA. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-645 012 6/3 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

INVESTIGATION OF NORTH-ASIATIC (SIBERIAN)  
RICKETTSIOSIS IN DERMACENTOR NUTTALLI TICKS COLLECTED  
IN ONE OF THE KRASNOIARSK REGION FOCI; (U)

63 7P MERINOV, V. A. ;  
MONITOR: NAMRU-3 TRANS-155

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MEDITSINAKAYA  
PARAZITOLOGIYA I PARAZITARNYE BOLEZNI (USSR), V32 N1  
P54-61 1963.

DESCRIPTORS: (+EPIDEMIOLOGY, SIBERIA), (+TICKS,  
+DISEASE VECTORS), ECOLOGY, RICKETTSIA,  
DISEASES, GUINEA PIGS, SERODIAGNOSIS, ANTIGENS  
+ ANTIBODIES, INFECTIONS, IMMUNITY, USSR (U)

IN THE NORTH ASIATIC RICKETTSIOSIS FOCI IN THE  
KRASNOYARSK REGION DERMACENTOR NUTTALLI TICKS  
WERE COLLECTED AND EXAMINED FOR NATURAL INFESTATION  
WITH THE CAUSATIVE AGENT DERMACENTROXENUS  
SIBIRICUS. THE TRANSMISSION OF RICKETTSIA IN  
RECENTLY MOLTED TICKS IS REDUCED, APPARENTLY BECAUSE  
OF THE UNDERDEVELOPMENT OF SALIVARY GLANDS DURING  
POST MOLTING PERIOD. THE FEEDING OF TICKS KEPT  
FASTING FOR OVER A YEAR WAS ACCCOMPANIED WITH  
INTENSIVE INFECTION OF GUINEA PIGS, REACHING ITS PEAK  
DURING REPEATED LETTING OF THEM ON GUINEA PIGS AFTER  
ARTIFICIALLY INTERRUPTED FEEDING. A CAUSAL AGENT  
(STRAIN 'T'), ISOLATED FROM THE TICKS AND  
IDENTIFIED BOTH SEROLOGICALLY WITH A STANDARD ANTIGEN  
AND IMMUNOLOGICALLY BY REPEATED INOCULATIONS WITH THE  
ALTAY STRAIN 'NET-SVETAEV', WAS IDENTIFIED AS THE  
CAUSATIVE AGENT OF THE NORTH ASIATIC  
RICKETTSIOSIS. FOLLOWING INOCULATION OF GUINEA  
PIGS WITH A SUSPENSION OF LARVAE HATCHED FROM TICK  
EGGS COLLECTED FROM CATTLE, A STRAIN NO. 50 WAS  
ISOLATED, PROVING THE TRANSDERMAL TRANSMISSION OF  
THE RICKETTSIA. HENCE IN THE FOCUS, D. NUTTALLI  
APPEAR TO BE BOTH THE VECTOR AND THE RESERVOIR OF  
INFECTION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-645 646 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

EXPERIMENTS ON PARENTERAL INFECTION OF ARGASID TICKS  
ORNITHODORUS PAPILLIPES BY RICKETTSIA PROWAZEKI. (U)

65 3P KESAREV,I. P. {PRODAN,Z. G. I  
MONITOR: NAMRU-3 ,TT TRANS-178,67~60437

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF PROB. PARASIT (SIC)  
(USSR), N2 P61-3 1963.

DESCRIPTORS: (\*TICKS, \*RICKETTSIA PROWAZEKI),  
INFECTIONS, GROWTH, REPRODUCTION(PHYSIOLOGY),  
DISEASES, BLOOD, RETICULO-ENDOTHELIAL SYSTEM,  
PHAGOCYTES, USSR (U)

THE POSSIBILITY OF REPRODUCTION OF RICKETTSIA  
PROWAZEKI IN THE BODY OF ARGASID TICKS ORNITHODORUS  
PAPILLIPES AFTER PARENTERAL INFECTION WAS  
DEMONSTRATED. WITHIN THE BODY OF PARENTERALLY  
INFECTED TICKS, MAINTAINED AT 31°C, GENERALIZED  
RICKETTSIOSIS OCCURS. PROBABLY DISSEMINATION OF  
RICKETTSIA OCCURS Owing TO CIRCULATION OF HEMOLYMPH  
AND PHAGOCYTOSIS OF HEMOCYTES. THE PHYSIOLOGIC  
STATE OF THE TICK EFFECTS THE INTENSITY OF  
DEVELOPMENT OF RICKETTSIAL INFECTION. MORE  
INTENSIVE REPRODUCTION OF RICKETTSIA OCCURS IN THE  
BODY OF FED TICKS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-645 647 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

NEW TICKS OF THE FAMILY IXODIDAE, (U)

65 SP POMERANTSEV, B. I. ;  
MONITOR: NAMRU-3, TT TRANS-177, 67-60439

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF PARAZITOLOGICHESKII  
SBORNIK (USSR), V10 P20-4 1948.

DESCRIPTORS: (\*TICKS, MORPHOLOGY(BIOLOGY)), USSR (U)

THE TWO SPECIES AND ONE SUBSPECIES OF TICKS  
DESCRIBED IN THE REPORT INCLUDE; IXODES  
PERSULCATUS KASCHMIRICUS, SUBSP. N.; RHIPICEPHALUS  
LEPORIS, SP. N.; AND DERMACENTOR RASKENENSIS, SP.  
N. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-645 754 6/3 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

ISOLATION OF TICK-BORNE ENCEPHALITIS VIRUS FROM  
DERMACENTOR PICTUS HERM. AND IXODES PERSULCATUS P.  
SCH. TICKS IN PLACES OF THEIR MUTUAL HABITATION. (U)

65 1P BELAN,A. A. BILALOVA,E. Z. I  
DUBOV,A. B. IKATIN,A. A. LYANTSEN,M. M. I  
MONITOR: NAMRU-3 ,TT TRANS-152,67-60474

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MONO. TICK-BORNE  
ENCEPHALITIS, KEMOROVO TICK-BORNE FEVER,  
HEMORRHAGIC FEVERS, AND OTHER ARBOVIRUS INFECTIONS,  
MOSCOW, 1964 P228. SCIENTIFIC CONFERENCE OF THE  
INST. OF POLIOMYELITIS AND ENCEPHALITIS (11TH),  
ABSTRACTS OF PAPERS.

DESCRIPTORS: (\*TICKS, \*ARBOVIRUSES), DISEASE  
VECTORS, ECOLOGY, DISEASES, USSR (U)

THE OBSERVATIONS WERE CONDUCTED IN ONE STATION OF  
THE FOREST STEPPE ZONE IN WESTERN SIBERIA IN THE  
VICINITY OF THE TOWN ISHIM. THE STATION IS IN AN  
AREA IN WHICH THE MAIN TREES ARE BIRCH AND ASPEN, AND  
THE LOWER FOREST LAYERS ARE THE SAME SPECIES. THE  
GRASS IS MODERATE BY DENSE. TWO SPECIES OF IXODID  
TICKS WERE FOUND - D. PICTUS AND I. PERSULCATUS.  
OBSERVATIONS ON THE PREVALENCE OF TICKS CONDUCTED  
OVER 10 DAY PERIODS FROM 20 APRIL TO 30 SEPTEMBER  
1963, SHOWED D. PICTUS TO BE THE CHIEF SPECIES.  
THE MAXIMUM NUMBER OF ADULTS OF D. PICTUS ADULTS  
COLLECTED BY BLANKET DRAGGING PER ONE KILOMETER WAS  
18 IN THE FIRST TEN DAYS OF MAY. THE MAXIMUM  
NUMBER OF I. PERSULCATUS UNDER SIMILAR CONDITIONS  
WAS NOT MORE THAN 7. FOR ISOLATION PURPOSES, 560  
HUNGRY ADULT D. PICTUS AND 1220 I. PERSULCATUS  
WERE TAKEN. A TOTAL OF 178 TESTS WAS MADE (10  
TICKS PER TEST); OF THEM, 56 WERE D. PICTUS AND  
122 WERE I. PERSULCATUS. THE VIRUSES WERE  
ISOLATED IN WHITE MICE BY INTERCEREBRAL INOCULATION  
WITH SUSPENSIONS OF TICKS WITH 3 TO 5 SUCCESSIVE  
PASSAGES AND IN HUMAN EMBRYO FIBROBLASTS WITH  
COXSAKI A21 AS AN INDICATOR. A TOTAL OF 40  
STRAINS OF TICK-BORNE ENCEPHALITIS VIRUS (32.8%)  
WERE ISOLATED FROM I. PERSULCATUS TICKS AND 7  
STRAINS FROM D. PICTUS (12.5%). ALL VIRUSES  
WERE FOUND TO BE PATHOGENIC FOR WHITE MICE BY THE  
INTERCEREBRAL AND PERIPHERAL ROUTES OF INOCULATION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-653 537 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

IXODID TICKS (ACARINA, IXODIDAE) OF CENTRAL AFRICA.  
VOLUME IV. GENERA APONOMMA NEUMANN, 1899, BOOPHILUS  
CURTICE, 1891, DERMACENTOR KOCH, 1844, HAEMAPHYSALIS  
KOCK, 1844, HYALOMMA KOCH, 1844 AND RHIPICENTOR  
NUTTALL AND WARBURTON, 1908. LISTS AND BIBLIOGRAPHY,

(U)

66 413P ELBL, ALENA; ANASTOS, GEORGE ;  
CONTRACT: DA-49-007-MD-981

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 3, AD-653 536.

DESCRIPTORS: (=TICKS, SUBSAHARAN AFRICA),  
CLASSIFICATION, IDENTIFICATION, DISTRIBUTION,  
ECOLOGY, MORPHOLOGY(BIOLOGY), DISEASE VECTORS,  
MAMMALS, MAPS, TABLES, BIBLIOGRAPHIES

(U)

FOR ABSTRACT, SEE AD-653 534.

(U)

37

UNCLASSIFIED

/ZOHLC

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-660 157 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT), DEPT OF  
MEDICAL ZOOLOGY

MAIN FEATURES OF PHOTOPERIODIC REACTION IN  
DERMACENTOR MARGINATUS SULZ. TICKS (IXODOIDEA). (U)

63 13P BELOZEROV, V. N. & KVITKO, N.  
V. I.  
MONITOR: NAMRU-3, TT TRANS-190, 67-63198

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZOOLOGICHESKI ZHURNAL  
(USSR) V44 N3 P363-72 1965.

DESCRIPTORS: (\*TICKS, \*PHOTOPERIODISM), LIFE  
CYCLE, PERIODIC VARIATIONS,  
REPRODUCTION(PHYSIOLOGY), DIURNAL VARIATIONS,  
RHYTHM(BIOLOGY), ECOLOGY, USSR (U)

IN DERMACENTOR MARGINATUS FEMALES (DAGHESTAN  
POPULATION) THE DEPENDENCE OF THE OVIPOSITION DELAY  
AT 18C UPON PHOTOPERIODICAL AND TEMPERATURE  
CONDITIONS OF THEIR MAINTENANCE PRIOR TO FEEDING WAS  
INVESTIGATED. THE DELAY OF EGG-LAYING REPRESENTS  
WINTER DIAPAUSE AND IS DETERMINED BY BOTH LIGHT AND  
TEMPERATURE CONDITIONS OF MAINTENANCE OF HUNGRY TICKS  
IN CORRESPONDENCE WITH THE NORM OF SHORT-DAY  
PHOTOPERIODICAL REACTION. LONG DAY BRINGS ABOUT  
PROLONGED DELAY (OVIPOSITION STARTS NOT EARLIER  
THAN AFTER 4 MONTHS), WHILE A SHORT-DAY STIMULATES  
THE NON-DIAPAUSE OVIPOSITION. 14 HRS. OF LIGHT P.D.  
IS OF CRUCIAL SIGNIFICANCE. NO SHIFT OF THE  
THRESHOLD OCCURS WITH A CHANGE IN TEMPERATURE. A  
PECULIARITY OF PHOTOPERIODICAL REACTION IN  
DERMACENTOR MARGINATUS CONSISTS IN A DEPENDENCE OF  
THE DURATION OF THE DELAY WITHIN THE SHORT-DAY RANGE  
UPON LIGHT AND TEMPERATURE CONDITIONS OF MAINTENANCE  
OF HUNGRY TICKS, AS WELL AS UPON THEIR AGE. THE  
PHOTOPERIOD OF 9 HRS. OF LIGHT P.D. AND THE  
TEMPERATURE OF 18C ARE MOST EFFECTIVE IN THE  
INDUCTION OF THE SHORTEST NON-DIAPAUSE OVOGENESIS  
(OVIPOSITION STARTS IN 15.5 DAYS). A CHANGE IN  
THE DAY LENGTH AND A TEMPERATURE INCREASE (UP TO  
25C) INDUCE A PROLONGATION OF THE DELAY (AT 14  
HRS. OF LIGHT AND 25C THE DELAY INCREASES 8.1  
TIMES). CONDITIONS OF MAINTENANCE OF HUNGRY  
TICKS DO NOT EFFECT EITHER THE TIME OF PARASITIZING  
OR THE WEIGHT OF SATIATED FEMALES, BUT EFFECT  
MORTALITY OF THESE LATTER WHICH ATTAINS ITS MAXIMUM  
(42-50%) AT THRESHOLD PHOTOPERIODS AND AT 18C. (U)

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UNCLASSIFIED

/ZOHLC

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-664 291 6/3  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

INDEX CATALOGUE TO RUSSIAN, CENTRAL AND EASTERN  
EUROPEAN, AND CHINESE LITERATURE IN MEDICAL  
ENTOMOLOGY. SUPPLEMENT IV. ARTHROPOD-BORNE AND  
ARTHROPOD-ASSOCIATED DISEASES. (U)

67 94P  
CONTRACT: DA-49-193-MD-2238

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO SUPPLEMENT NO. 3, AD-656  
933.

DESCRIPTORS: (\*ARTHROPODS, DISEASE VECTORS),  
(\*DISEASE VECTORS, BIBLIOGRAPHIES),  
EPIDEMIOLOGY, BACTERIA, DISEASES, BRUCELLA,  
CHOLERA, MUSCA, LISTERIA, PASTEURELLA,  
BLATTIDAE, SALMONELLA, LEPTOSPIRA, BORRELIA,  
SPIROCHAETA, PROTOZOA, COCCIDIOIDES,  
HEMOSPORIDIA, LEISHMANIA, PLASMODIUM,  
TOXOPLASMA, TRYPARASIS, RICKETTSIA, MITES,  
COXIELLA, TICKS, RICKETTSIA TSUTSUGAMUSHI,  
FEVERS, VIRUS DISEASES, ADENOVIRUSES, BOVINES,  
EQUINE ENCEPHALOMYELITIS VIRUS, FOOT + MOUTH  
DISEASE VIRUS, JAPANESE B ENCEPHALITIS VIRUS,  
NEWCASTLE DISEASE VIRUS, RUSSIAN SPRING SUMMER  
ENCEPHALITIS VIRUS, WORMS, FILARIAE, ENTOMOLOGY,  
INDEXES (U)

CONTENTS: BACTERIAL DISEASES; SPIROCHAETAL  
DISEASES; PROTOZOAN DISEASES; RICKETTSIAL  
DISEASES; VIRAL DISEASES; MISCELLANEOUS  
ARTHROPOD-BORNE AND ARTHROPOD-ASSOCIATED DISEASES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-666 358 6/12 6/12  
WALTER REED ARMY INST OF RESEARCH WASHINGTON D C  
EXPERIMENTAL INFECTION OF THE COTTON RAT SIGMODON  
HISPIDUS WITH RICKETTSIA RICKETTSII. (U)

DESCRIPTIVE NOTE: MASTER'S THESIS;  
NOV 67 6P SHIRAI,A. ;BOZEMAN,F. M. ;  
HUMPHRIES,J. W. ;ELISBERG,B. L. ;FABER,J.  
E. ;

UNCLASSIFIED REPORT  
AVAILABILITY: PUBLISHED IN JOURNAL OF  
BACTERIOLOGY, V94 N5 P1334-9 NOV 1967.

DESCRIPTORS: (>RATS; DISEASE VECTORS);  
(>RICKETTSIA RICKETTSII, RATS), (>DISEASE  
VECTORS, RICKETTSIA RICKETTSII), ECOLOGY,  
VIABILITY, ANTIGENS + ANTIBODIES, DISEASES,  
RICKETTSIA, IMMUNITY, TICKS (U)  
IDENTIFIERS: ROCKY MOUNTAIN SPOTTED FEVER (U)

STUDIES OF EXPERIMENTAL INFECTION OF THE COTTON  
RAT, SIGMODON HISPIDUS, WITH THE VIRULENT SHEILA  
SMITH (R TYPE) AND THE AVIRULENT SI 7 (U  
TYPE) STRAINS OF RICKETTSIA RICKETTSII WERE  
UNDERTAKEN TO EVALUATE THE ROLE OF THIS NATIVE WILD  
MAMMAL IN THE ECOLOGY OF ROCKY MOUNTAIN SPOTTED  
FEVER. THE SHEILA SMITH STRAIN, WHICH WAS  
HIGHLY LETHAL FOR GUINEA PIGS, WAS NONPATHOGENIC FOR  
COTTON RATS. SERIAL PASSAGE OF THE R-TYPE STRAIN  
IN THE COTTON RAT DID NOT ALTER THE VIRULENCE OF THE  
AGENT FOR COTTON RATS OR GUINEA PIGS. THE U-TYPE  
STRAIN, WHICH WAS ORIGINALLY RECOVERED FROM A WILD  
COTTON RAT, COULD NOT BE MAINTAINED BEYOND THE FIRST  
PASSAGE IN THIS ANIMAL HOST. RICKETTSEMIA IN THE  
COTTON RAT OCCURRED OVER A 24-HR PERIOD AFTER  
INOCULATION OF THE VIRULENT STRAIN BUT WAS DETECTED  
ONLY 1 HR AFTER INOCULATION OF THE AVIRULENT STRAIN.  
THE SHORT PERIOD OF RICKETTSEMIA SUGGESTS THAT THE  
COTTON RAT PROBABLY IS NOT AN IMPORTANT RESERVOIR OF  
R. RICKETTSII. SPECIFIC COMPLEMENT-FIXING  
ANTIBODIES DEVELOPED RAPIDLY AFTER INFECTION WITH  
EITHER STRAIN, BUT THE ANTIBODIES EVOKED BY THE R  
STRAIN ATTAINED HIGHER TITERS AND PERSISTED LONGER.  
COTTON RATS PREVIOUSLY INFECTED WITH THE SHEILA  
SMITH STRAIN DEVELOPED RICKETTSEMIA AFTER  
REINFECTION WITH THE SAME STRAIN, EVEN THOUGH  
RELATIVELY HIGH LEVELS OF ANTIBODY WERE STILL  
PRESENT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-668 890 6/12  
NAVAL MEDICAL RESEARCH INST BETHESDA MD

RICKETTSIAE AND RICKETTSIAL DISEASES; (U)

FEB 68 SP WEISS, EMILIO ;ELISBERG,  
BENNETT L. ;BOZEMAN, FLORENCE MARILYN ;ORMSBEE,  
RICHARD A. ;PHILIP, CORNELIUS B. ;  
PROJ: NAVMED-MR005.09.0007  
TASK: MR005.09.0007-25

UNCLASSIFIED REPORT

AVAILABILITY: PUBLISHED IN SCIENCE, V159 P553-4,  
556 FEB 2 1968.

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH WALTER  
REED ARMY INST. OF RESEARCH, WASHINGTON, D.  
C.

DESCRIPTORS: (\*RICKETTSIA, \*INFECTIOUS DISEASES),  
CLASSIFICATION, CELL STRUCTURE,  
MORPHOLOGY(BIOLOGY), CELL DIVISION, ENZYMES,  
METABOLISM, CULTURE MEDIA, TISSUE CULTURE,  
GROWTH, VACCINES, ANTIGENS + ANTIBODIES,  
PREPARATION, IMMUNITY, DISEASE VECTORS, TICKS,  
EPIDEMIOLOGY, SYMPOSIA (U)

THE FIRST INTERNATIONAL SYMPOSIUM ON  
RICKETTSIAE AND RICKETTSIAL DISEASES WAS HELD  
ON 26-29 SEPTEMBER 1967 IN THE CASTLE OF  
SMOLENICE NEAR BRATISLAVA, CZECHOSLOVAKIA.  
APPROXIMATELY 64 SCIENTISTS FROM 15 COUNTRIES  
PARTICIPATED. THE BASIC PROPERTIES OF RICKETTSIAE  
AS WELL AS RESEARCH LEADING TOWARDS POSSIBLE METHODS  
OF PREVENTION OF RICKETTSIAL DISEASES WERE DISCUSSED.  
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 258 6/6 6/7  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

SPONTANEOUS INFECTION OF RICKETTSIA BURNETI IN  
ECTOPARASITES OF THE SAND MARTIN. (U)

68 7P MAKHMETOV, M. M. ;  
MONITOR: NAMRU-3 TRANS-202

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF PRIRODNAYA OCHAGOVOST  
BOLEZNEI I VOFROSY PARAZITOLOGII (USSR) N3 P70-4  
1961.

DESCRIPTORS: (\*RICKETTSIA, \*DISEASE VECTORS),  
BIRDS, TICKS, MITES, PARASITES, ECOLOGY,  
COLLECTING METHODS, EPIDEMIOLOGY, INFECTIOUS  
DISEASES, SERODIAGNOSIS, COXIELLA BURNETII,  
USSR

IDENTIFIERS: TRANSLATIONS

(U)  
(U)

NATURAL R. BURNETI INFECTION OF IXODES LIVIDUS  
AND HAEMOLAEAPS MEGAVENTRALIS COLLECTED IN NESTS  
OF SAND MARTINS IN TARANOVSK DISTRICT OF  
KUSTANNY OBLAST, WAS DISCOVERED. IN ADDITION,  
RICKETTSIAE WERE ISOLATED FROM OVERWINTERED H.  
MEGAVENTRALIS MITES COLLECTED BEFORE ARRIVAL OF  
SAND MARTINS. THE IMPORTANCE OF THESE TICKS  
AND MITES IN EPIDEMIOLOGY OF Q FEVER REQUIRES  
FURTHER STUDY. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZDHL

AD-670 363 6/5  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

LOCAL CASES OF TICK-BORNE SPOTTED TYPHUS FEVER AND  
TICK-BORNE RECRUDESCENT TYPHUS FEVER IN ALMA ATA  
OBLAST. (U)

MONITOR: NAMRU-3 68 1OP BARTOSHEVICH, E. N.  
TRANS-208

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF PRIRODNAYA OCHAGOVOST  
BOLEZNEI I VOPROSY PARAZITOLOGII (USSR) N2 P127-35  
1954.

DESCRIPTORS: (\*RICKETTSIA, INFECTIOUS DISEASES),  
ETIOLOGY, TICKS, DISEASE VECTORS, EPIDEMIOLOGY,

DIAGNOSIS, ECOLOGY, USSR  
IDENTIFIERS: TRANSLATIONS (U)

AFTER DETERMINING THE PRESENCE OF ENDEMIC FOCI OF  
TICK-BORNE RICKETTSIOSIS IN THE SOUTHERN, NORTHERN,  
EASTERN, AND CENTRAL ZONES OF USSR, IT WAS NATURAL  
TO ASSUME THAT NATURAL FOCI OF SIMILAR DISEASES MUST  
ALSO EXIST IN THE TERRITORY OF KAZAKH SSR, WHICH  
OCCUPIES A CENTRAL POSITION IN RELATION TO THOSE  
AREAS WHERE TICK-BORNE RICKETTSIOSSES HAD BEEN  
ESTABLISHED, ESPECIALLY AS CERTAIN AREAS IN  
KAZAKHSTAN DO NOT DIFFER FROM THE ADJACENT ENDEMIC  
AREAS IN THEIR NATURAL CONDITIONS, VEGETATION, AND  
FAUNA. THESE HYPOTHESES WERE LATTER CONFIRMED BY  
OBSERVING DISEASES WHOSE CLINICAL PICTURE RESEMBLED  
THAT OF TICK-BORNE SPOTTED FEVERS. BRIEF EXTRACTS  
FROM THE HISTORIES OF 2 CASES ARE PRESENTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 265 6/6 6/7  
NAVAL MEDICAL RESEARCH UNIT NO 2 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

ON SPONTANEOUS INFECTION OF HAEMAPHYSALIS JAPONICA  
DOUGLASI NUTT. AND WARBL. TICKS WITH R. SIBIRICUS  
RICKETTSIAE IN PRIMORSK REGION, (U)

68 7P SOMOV, G. P. ISHESTAKOV, V.  
I. I MONITOR: NAMRU-3 TRANS-205

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V40 N12 P51-6  
1963.

DESCRIPTORS: (\*RICKETTSIA, DISEASE VECTORS),  
(\*TICKS, ECOLOGY), MORPHOLOGY(BIOLOGY),  
PLANTS(BOTANY), ANIMALS, PERIODIC VARIATIONS,  
LIFE CYCLE, METAMORPHOSIS, USSR (U)  
IDENTIFIERS: \*HOSTS(PARASITOLOGY),  
TRANSLATIONS (U)

IN THE PRIMORSK REGION THERE WAS ESTABLISHED A  
SPONTANEOUS INFECTION OF HAEMAPHYSALIS JAPONICA  
DOUGLASI NUTT. AND WARBL. TICKS WITH RICKETTSIA.  
TWO STRAINS BELONGING TO THE SPECIES  
DERMACENTROXENUS SIBIRICUS WERE ISOLATED FROM  
HUNGRY IMAGO AND NYMPHS, COLLECTED ON THE PLANTS IN  
THE FOCUS OF TICK RICKETTSIOSIS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 366 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

DOES FEEDING TICKS ON IMMUNE ANIMALS INFLUENCE  
RICKETTSIA SIBIRICA, (U)

68 SP GROKHOVSKAYA, I. M. ISIDOROV,  
V. E. KORSHUNOVA, O. S. I  
MONITOR: NAMRU-3 TRANS-204

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MEDITSINSKAYA  
PARAZITOLOGIYA I PARAZITARNYE BOLEZNI (USSR) V33 N2  
P178-81 1964.

DESCRIPTORS: \*RICKETTSIA, DISEASE VECTORS,  
IMMUNITY, ANIMALS, TICKS, METAMORPHOSIS,  
INFECTIONS, LIFE CYCLE, USSR (U)  
IDENTIFIERS: \*HOSTS(PARASITOLOGY),  
TRANSLATIONS (U)

IT WAS SHOWN EXPERIMENTALLY THAT H. ASIATICUM  
TICKS FEEDING ON INFECTED GUINEAPIGS PICK UP R.  
SIBIRICA AND CAN PRESERVE THEM FOR TWO YEARS.  
TICKS H. ASIATICUM INFECTED WITH RICKETTSIA DO  
NOT GET RID OF R. SIBIRICA BY A SINGLE AND COMPLETE  
ENGORGEMENT ON IMMUNE ANIMALS OR BY INTERMITTENT  
BLOODSUCKING ON AN IMMUNE AND THEN ON A HEALTHY  
ANIMAL. INFECTED H. ASIATICUM TICKS SUCKING  
IMMUNE BLOOD RETAIN THE CAPACITY FOR TRANSPHASAL AND  
TRANSOVARIAL TRANSMISSION OF R. SIBIRICA TO THEIR  
PROGENY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 396 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

DESCRIPTION OF A NEW TICK SPECIES DERMACENTOR  
ASIATICUS SP. N. (ACARINA, IXODIDAE) FROM  
NORTHEASTERN ASIA.

(U)

68 3P EMELYANOVA, N. D.  
KOZLOVSKAYA, O. L.;  
MONITOR: NAMRU-3 TRANS-246

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZOOLOGICHESKII ZHURNAL  
(USSR) V46 N7 P1101-5 1967.

DESCRIPTORS: (TICKS, MORPHOLOGY(BIOLOGY)),  
IDENTIFICATION, CLASSIFICATION, DISTRIBUTION,  
USSR

(U)

IDENTIFIERS: TRANSLATIONS

(U)

THE MORPHOLOGY OF D. ASIATICUS SP. N. MOST  
CLOSELY RESEMBLES THAT OF DERMACENTOR SINICUS  
SCH., 1931, D. ANTRORUM REANIK, 1950, AND D.  
POMERANZEVI SERDYUKOVA, 1951, OF THE PALEARCTIC  
FAUNA. ADULT TICKS OF THIS GROUP OF SPECIES OF THE  
GENUS DERMACENTOR ARE CHARACTERIZED BY RELATIVELY  
SMALL SIZE, DULL ENAMEL ORNAMENTATION, MALE COXAE  
IV EITHER NOT WIDENED OR WIDENED VERY WEAKLY.  
(AUTHOR)

(U)

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/ZOHLC

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 399 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT), DEPT OF  
MEDICAL ZOOLOGY

SUSCEPTIBILITY OF TICKS OF THE SUPERFAMILY IXODOIDEA  
TO RICKETTSIA PROWAZEKI, (U)

68. 8P GROKHOVSKAYA I. M. ;  
IGNATOVICH, V. F. ISIDOROV, V. E. ;  
MONITOR: NAMRU-3 TRANS-249

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MEDITSINSKAYA  
PARAZITOLOGIYA I PARAZITARNYE BOLEZNI (USSR) V35 N3  
P299-304 1966.

DESCRIPTORS: (\*RICKETTSIA PROWAZEKI, \*TICKS),  
INFECTIONS, LIFE CYCLE,  
REPRODUCTION(PHYSIOLOGY), BLOOD ANALYSIS,  
GUINEA PIGS, EXPERIMENTAL DESIGN, USSR (U)

IDENTIFIERS: TRANSLATIONS (U)

SUSCEPTIBILITY OF TICKS TO RICKETTSIA PROWAZEKII  
WAS TESTED EXPERIMENTALLY. FOR INFECTION OF TICKS  
THEY WERE EITHER PLACED ON INFECTED GUINEA PIGS OR  
INJECTED WITH RICKETTSIA. TICKS H. ANATOLICUM,  
D. PICTUS, A CANESTRINII PICKED UP RICKETTSIA  
DURING FEEDING ON A SICK GUINEA PIG. SPECIES  
DIFFERENCES IN SUSCEPTIBILITY OF TICKS TO  
RICKETTSIA PROWAZEKII WERE REVEALED. IN TICKS  
INFECTED DURING BLOOD-SUCKING THE RICKETTSIA REMAINED  
FOR 15 DAYS. EXPERIMENTS USING PARENTERAL  
INJECTIONS SHOWED THAT THE TICK BODY PRESENTS A  
FAVOURABLE ENVIRONMENT FOR THE DEVELOPMENT OF  
RICKETTSIA. THE LATTER MULTIPLY IN AMOEBOCYTES OF  
THE HEMOLYMPH OF TICKS. THE PRESENCE OF RICKETTSIA  
IN PARENTERALLY INFECTED TICKS WAS DETECTED UP TO THE  
116TH DAY. TICK DID NOT TRANSMIT RICKETTSIA TO  
THEIR PROGENY TRANSVARIALLY. INFECTED TICKS DID  
NOT TRANSMIT RICKETTSIA TO GUINEA PIGS WHEN FEEDING  
ON THEM. GUINEA PIGS COULD BE INFECTED BY  
GROUNDING TICKS OF THEIR SCARIFIED SKIN.  
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 409 6/3 6/6 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

FINDING OF RICKETTSIA BURNETI IN HORSEFLIES TABANUS  
STAEGERI,

(U)

68 4P AMANZHULOV,S. A. ;  
ANOSENKOVA,N. I. ;POSTRICHEVA,O. V. ;  
MONITOR: NAMRU-3 TRANS-292

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MEDITSINSKAYA  
PARAZITOLOGIYA I PARAZITARNYE BOLEZNI (USSR) V34 N5  
P612-4 1965.

DESCRIPTORS: (\*COXIELLA BURNETII, \*DISEASE,  
VECTORS), RICKETTSIA, MUSCA, TICKS, ECOLOGY,  
EMBRYONATED EGG TECHNIQUE, FLUORESCENT ANTIBODY  
TECHNIQUE, ADAPTATION(PHYSIOLOGY), DISTRIBUTION,  
IDENTIFICATION, INFECTIOUS DISEASES, EPIDEMIOLOGY;  
USSR

(U)

IDENTIFIERS: TRANSLATIONS

(U)

THE PAPER PRESENTS DATA ON ISOLATION OF  
RICKETTSIA BURNETI FROM HORSEFLIES TABANUS  
STAEGERI IN KAZAKHSTAN. A SHORT CHARACTERISTIC  
OF RICKETTSIAL CULTURE LIS GIVEN AS WELL AS THE  
RESULTS OF IDENTIFICATION EXPERIMENTS INVOLVING  
MICROSCOPIC EXAMINATION OF VISCERA OF INOCULATED  
GUINEAPIGS AND WHITE MICE, AND COMPLEMENT FIXATION  
TESTS. THE FLUORESCENT ANTIBODY TECHNIQUE WAS  
SUCCESSFULLY USED IN THE IDENTIFICATION OF THE  
CAUSATIVE AGENT. A QUESTION IS RAISED ON THE  
NECESSITY OF FURTHER COMPLEX STUDY OF THE ROLE OF  
MONGOLIAN AND OTHER HORSEFLIES IN THE EPIDEMIOLOGY  
AND EPIZOOTOLOGY OF Q RICKETTSIOSIS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-670 954 6/3 6/6  
MARYLAND UNIV COLLEGE PARK DEPT OF ZOOLOGY

INDEX CATALOGUE TO RUSSIAN, CENTRAL AND EASTERN  
EUROPEAN, AND CHINESE LITERATURE IN MEDICAL  
ENTOMOLOGY. SUPPLEMENT 6. ARTHROPOD VECTORS AND  
ANTHROPOD-BORNE DISEASES.

(U)

68 224P ANASTOS, GEORGE :  
CONTRACT: DA-49-193-MD-2238

UNCLASSIFIED REPORT

DESCRIPTORS: (\*ARTHROPODS; DISEASE VECTORS),  
(\*DISEASE VECTORS; BIBLIOGRAPHIES), DIPTERA,  
TICKS, SIPHONAPTERA, MITES; BACTERIA,  
SPIROCHAETA, PROTOZOA, RICKETTSIA, FUNGI,  
INFECTIOUS DISEASES, VIRUS DISEASES, ENTOMOLOGY,  
EPIDEMIOLOGY, INDEXES, USSR, EASTERN EUROPE,  
CHINA

(U)

CONTENTS: DIPTERA; TICKS; SIPHONAPTERA;  
MITES; MISCELLANEOUS ARTHROPODS; BACTERIAL  
DISEASES; SPIROCHAETAL DISEASES; PROTOZOAN  
DISEASES; RICKETTSIAL DISEASES; VIRAL DISEASES;  
MISCELLANEOUS ARTHROPOD-BORNE AND ARTHROPOD-  
ASSOCIATED DISEASES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-673 304 6/5 6/6  
ARMY BIOLOGICAL LABS FREDERICK MD

ON THE EPIDEMIOLOGY OF TICK SPOTTED FEVER. (U)

JUL 68 5P DOCHAROVA, F. V. I  
REPT. NO. TRANS-50

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) N1/2 P68-72  
1943.

DESCRIPTORS: (\*RICKETTSIA, DISEASES),  
EPIDEMIOLOGY, TICKS, DISEASE VECTORS, ECOLOGY,  
BITES + STINGS, PEST CONTROL, RODENTS,  
USSR

IDENTIFIERS: SPOTTED FEVER, TRANSLATIONS (U) (U)

THE WORK WAS CONCERNED WITH THE STUDY OF THE  
DISEASE OF THE FAR EASTERN DISTRICTS OF SIBERIA AND  
DEVELOPMENT OF MEASURES AGAINST IT ACCORDING TO LOCAL  
CONDITIONS. VEGETATION IN THIS AREA IS ABUNDANT;  
BRUSH TYPE TREES COVERING A LARGE AREA, GIVING  
FAVORABLE CONDITIONS TO THE LIFE AND DEVELOPMENT OF  
RODENTS, HOSTS OF THE TICK. ALSO, A LARGE AREA OF  
STEPPE, COVERED WITH DENSE TALL GRASS, AFFORDS A  
GOOD HABITAT FOR RODENTS AND TICKS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-676 343 6/5  
ARMY BIOLOGICAL LABS FREDERICK MD

ON THE RESULTS OF WORK BY THE EPIDEMIOLOGICAL  
DIVISION OF THE FEBM ON THE STUDY OF TICK SPOTTED  
FEVER IN THE KHABOROVSK. (U)

JUL 68 5P SHKORBATOV, V. I.  
REPT. NO. TRANS-47

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) VI 1944 N1/2 P43-46

DESCRIPTORS: (+VIRUS DISEASES, +DISEASE VECTORS),  
TICKS, DIAGNOSIS, INFECTIONS, BITES + STINGS,  
FEVERS, ANTIGEN-ANTIBODY REACTIONS, EPIDEMIOLOGY,  
USSR (U)

IDENTIFIERS: SPOTTED FEVER, TRANSLATIONS (U)

THE ISOLATION OF THIS VIRUS FROM THE BLOOD OF  
PATIENTS OR FROM TICKS, THROUGH INJECTIONS INTO THE  
PERITONEAL OF AVITAMINIC GUINEA PIGS, IS EASY. THE  
TRANSVARIABLE TRANSMISSION OF THE VIRUS IN TICKS  
DERMACENTOR SILVARUM IS TO THE SECOND GENERATION AS  
A RULE. BY USING THE RABBITS AS HOSTS FOR THE  
TICKS, IN VARIOUS STAGES OF THEIR DEVELOPMENT, FIRST  
EFFECTS CAN BE OBTAINED IDENTICAL TO THOSE IN MAN  
WITH SLIGHT EXCEPTIONS. IN BLOOD OF PATIENTS AND  
RECONVALESCENTS, OF TICK FEVER, IS OBSERVED  
AGGLUTININS TO PROTEUS OX19, OX2 AND OX:K  
WITH OX19 DOMINATING. AGGLUTININS TO 2 OR ALL OF  
THESE AT ONCE IS RARE. THE AVERAGE TITER TO OX19  
IS 1:400 - 1:800, AND 1:20 TO OX2 AND OX:K.  
ONLY 38% OF THOSE BITTEN ACTUALLY CONTACTED THE  
DISEASE. OTHERS WHO SUFFERED ILL EFFECTS  
CONSTITUTED 1/3. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-676 344 6/5  
ARMY BIOLOGICAL LABS FREDERICK MD

TO THE EPIDEMIOLOGY OF TICK SPOTTED FEVER OF CENTRAL  
SIBERIA. (U)

JUL 68 3P KRUNTOVSKAYA, M. K. ;  
SHTAMIKOV, M. D. ;  
REPT. NO. TRANS-49

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V14 N1/2 P65-68  
1943.

DESCRIPTORS: (\*VIRUS DISEASES, EPIDEMIOLOGY),  
TICKS, DISEASE VECTORS, PERIODIC VARIATIONS,

DIAGNOSIS, BITES + STINGS, USSR (U)

IDENTIFIERS: SPOTTED FEVER, TRANSLATIONS (U)

A REPORT IS PRESENTED ON TICK SPOTTED FEVER.  
STUDY OF THE HISTORY OF THE DISEASE IN 2 HOSPITALS  
DISCLOSED THAT THIS DISEASE WAS PRESENT 3 YEARS  
BEFORE THE RESEARCH WAS STARTED, AND WENT UNDER THE  
DIAGNOSIS OF GRIPPE AND TYPHUS OR AN ATYPICAL TYPHUS.  
LATER DOCTORS OF THESE AREAS BEGAN CALLING IT TICK  
FEVER DUE TO THE PRESENCE OF TICK BITES IN AMNESTIC  
AND OBJECTIVE ANALYSIS. THE ILLNESS APPEARED 2-3  
OR 5-6 DAYS AFTER THE NOTED BITES.  
EPIDEMIOLOGICALLY AND CLINICALLY THIS DISEASE DOES  
NOT COMPARE WITH TYPHUS FEVER. (AUTHOR) (U)

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/ZOHLC

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DDC REFURT BIBLIOGRAPHY SEARCH CONTROL NO. /ZDHL

AD-676 959 6/5  
ARMY BIOLOGICAL LABS FREDERICK MD

EXPERIMENTAL STUDY OF DERMACENTOR MARGINATUS SULZ.  
AND RHIPICEPHALUS ROSSICUS JAK. ET K. JAK.  
TICKS AS VECTORS OF TULAREMIA (EKSPERIMENTALNOE  
IZUCHENIE KLESHCHEI DERMACENTOR MARGINATUS SULZ. I  
RHIPICEPHALUS ROSSICUS JAK. ET K. JAK. KAK  
PERENOSCHIKOV TULYAREMII). (U)

SEP 68 1BP PETROV, V. G.;  
REPT. NO. TRANS-430

UNCLASSIFIED REPORT  
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE  
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFST  
ORDERING INSTRUCTIONS.

SUPPLEMENTARY NOTE: TRANS. OF MONO. VOPROSY  
EPIDEMIOLOGII I PROFILAKTIKI TULYAREMII (PROBLEMS OF  
EPIDEMIOLOGY AND PROPHYLAXIS OF TULAREMIA) MOSCOW,  
1958, P117-129.

DESCRIPTORS: (\*PASTEURELLA TULARENSIS; \*DISEASE  
VECTORS), TICKS, INFECTIONS, ECOLOGY, LARVAE,  
MORPHOLOGY(BIOLOGY), INGESTION(PHYSIOLOGY),  
EXCRETION, MORTALITY RATES, EMBRYONATED EGG  
TECHNIQUE, GROWTH, VIABILITY, DISEASES,

USSR (U)

IDENTIFIERS: TRANSLATIONS (U)

TRANSMISSION OF THE INFECTION BY TICKS OCCURS BOTH  
BY MEANS OF FEEDING ON AN ANIMAL AND THROUGH THE  
LATTER'S EATING THE INFECTED TICKS. THE  
TRANSMISSION OF INFECTION IS ALSO POSSIBLE THROUGH  
TICK EXCRETA. (AUTHOR) (U)

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/ZDHL

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-676 981 2/5 6/3  
ARMY BIOLOGICAL LABS FREDERICK MD

ON THE DISSEMINATION OF THE DERMACENTOR TICK, (U)

SEP 68 3P TROFIMOV, V. I  
REPT. NO. TRANS-93

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF VETERINARIYA (USSR) V22  
NO P28 1956.

DESCRIPTORS: (\*TICKS, DISSEMINATION),  
INFECTIONS, GEOGRAPHY, PROTOZOA, PARASITES,  
DISEASE VECTORS, EQUINES, USSR

IDENTIFIERS: TRANSLATIONS

(U)

(U)

ON THE DISSEMINATION OF THE DERMACENTOR TICK--  
TRANSLATION.

54

UNCLASSIFIED

/ZOHLC

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-676 995 6/5 6/13  
ARMY BIOLOGICAL LABS FREDERICK MD

CLINICAL CHARACTERISTICS OF THE TICK TYPHUS OF  
NORTHERN ASIA. (U)

SEP 68 9P KIREEVA, R. Y. ;  
REPT. NO. TRANS-86

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V27 N8 P73FF.  
1956.

DESCRIPTORS: (\*TICKS; RICKETTSIA), ASIA,  
DISEASES, IDENTIFICATION, INFECTIONS, RURAL  
AREAS, BITES + STINGS, FEVERS, SERODIAGNOSIS,  
PERIODIC VARIATIONS, PATHOLOGY, USSR  
IDENTIFIERS: TRANSLATIONS (U)

THE INFECTIONS OF NORTHERN-ASIATIC TICK TYPHUS  
OBSERVED IN THE FAR EAST DISTINGUISHED THEMSELVES  
BY THEIR SEASONALITY; IT APPEARED IN THE BEGINNING OF  
MAY AND TERMINATED IN OCTOBER; THE MAXIMUM NUMBER  
OF INFECTIONS CAME IN THE THREE SUMMER MONTHS. THE  
INFECTIONS WERE CONNECTED WITH TRAVEL TO RURAL WOODED  
OR BRUSHY LAND; OF 62 PATIENTS 42 BORE TICK BITES.  
THE INCUBATION PERIOD WAS 3-5 DAYS IN A MAJORITY OF  
THE CASES, BUT WAS SHORTER, 1 DAY, OR LONGER, 10  
DAYS. THE LENGTH OF THE INCUBATION PERIOD DID NOT  
EFFECT THE SEVERITY OF THE ILLNESS. THE CLINICAL  
COURSE DIFFERED BY A HIGH-QUALITATIVE, AND  
CHARACTERIZED ITSELF WITH, A SUDDEN COMMENCEMENT,  
FEVER WITH A DURATION OF 9-10 DAYS A GREATER PART OF  
THE TIME, HYPEREMIA OF THE FACE, CHARACTERISTIC,  
CHIEFLY ROSEOLUS-PAPULOID RASH WHICH WAS MORE  
PRONOUNCED ON THE BUTTOCKS AND THIGHS. THE  
GREATEST TITER OF AGGLUTINATION WAS OBTAINED DURING  
SEROLOGICAL REACTIONS WITH PROTEUS X2; WITH  
PROTEUS X19 THE TITER, AS A RULE, WAS SIGNIFICANTLY  
LOWER. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-688 549 6/6 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT)

ECTOPARASITES FROM MAMMALS IN KANHA NATIONAL PARK,  
MADHYA PRADESH, INDIA, AND THEIR POTENTIAL  
DISEASE RELATIONSHIPS.

(U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

66 14P MITCHELL, CARL J. ;  
HOOGSTRAAL, HARRY ; SCHALLER, GEORGE B. ; SPILLETT,  
JUAN ;

REPT. NO. NAMRU-3-TR-5-69

PROJ: MR005.09-1402

UNCLASSIFIED REPORT

AVAILABILITY: PUB. IN JNL. MED. ENT., V3 N2  
P113-124, 20 AUG 66.

DESCRIPTORS: (\*PARASITES, \*MAMMALS), (\*DISEASE  
VECTORS, MAMMALS), (\*INDIA, DISEASE VECTORS),  
INFECTIOUS DISEASES, VIRUSES, PROTOZOA,  
RICKETTSIA, PLATYHELMINTHS, DISEASES,  
PASTEURELLA, RODENTS, BIRDS, EQUINES, BOVINES,  
SWINE, TICKS, MITES, LICE, SIPHONAPTERA,  
EPIDEMIOLOGY

(U)

IDENTIFIERS: KANHA NATIONAL PARK,  
ECTOPARASITES

(U)

REPRINT: ECTOPARASITES FROM MAMMALS IN KANHA  
NATIONAL PARK, MADHYA PRADESH, INDIA, AND THEIR  
POTENTIAL DISEASE RELATIONSHIPS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-691 918 6/5  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

TICKBORNE HEMORRHAGIC FEVERS, ENCEPHALITIS, AND  
TYPHUS IN U.S.S.R. AND SOUTHERN ASIA. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,  
67 18P HOOGSTRAAL, HARRY ;  
PROJ: MR005.09-1402  
MONITOR: NAMRU-3 TR-14-69

UNCLASSIFIED REPORT

AVAILABILITY: PUB. IN EXPERIMENTAL PARASITOLOGY,  
V21 N1 P98-111, AUG 67.

SUPPLEMENTARY NOTE: PRESENTED AS THE ANNUAL THEOBALD  
SMITH MEMORIAL LECTURE (29TH), TO THE NEW YORK  
SOCIETY OF TROPICAL MEDICINE, ROCKEFELLER UNIV.,  
NEW YORK, 18 MAY 67.

DESCRIPTORS: (\*PARASITIC DISEASES, ASIA);  
(\*TICKS, PARASITIC DISEASES), FEVERS,  
HEMORRHAGE, ARBOVIRUSES, DISEASES, EPIDEMIOLOGY,  
USSR, RICKETTSIA, SOUTH ASIA (U)

IDENTIFIERS: \*HEMORRHAGIC FEVER,  
ENCEPHALITIS (U)

EPIDEMIOLOGICAL FACTORS OF OMSK HEMORRHAGIC FEVER  
AND OF KYASANUR FOREST DISEASE OF ASIA ARE  
COMPARED WITH THOSE OF POWASSAN ENCEPHALITIS IN  
NORTH AMERICA. THE NUMEROUS RIDDLES REGARDING  
CENTRAL ASIAN AND CRIMEAN-TYPE HEMORRHAGIC  
FEVERS ARE DISCUSSED IN THE LIGHT OF FAILURE TO  
ISOLATE THE CAUSATIVE ORGANISMS AND THUSLY THE  
INABILITY TO ACCOMPLISH EXPERIMENTAL RESEARCH TO  
ANSWER THE MANY QUESTIONS CONCERNING THEIR  
EPIDEMIOLOGY. THE POORLY KNOWN HIMALAYAN  
HEMORRHAGIC DISEASE IS REVIEWED. EPIDEMIOLOGICAL  
KNOWLEDGE FOR TWO WELL KNOWN DISEASES, RUSSIAN  
SPRING-SUMMER ENCEPHALITIS AND TICKBORNE ENCEPHALITIS  
IS COMPARED, AS WELL AS THAT FOR TWO LESS WELL KNOWN  
DISEASES, NEGISHI ENCEPHALITIS AND LANGAT  
ENCEPHALITIS. TICK TYPHUS IN ASIA IS REPRESENTED  
BY AT LEAST TWO RICKETTSIAL AGENTS, MEMBERS OF THE  
ROCKY MOUNTAIN SPOTTED FEVER GROUP, ONE CAUSING  
BOUTONNEUSE FEVER AND THE OTHER PRODUCING SIBERIAN  
TICK TYPHUS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-694 477 6/6  
OLD DOMINION COLL NORFOLK VA

THE ECOLOGY OF TICKS TRANSMITTING ROCKY MOUNTAIN  
SPOTTED FEVER IN THE EASTERN UNITED STATES. (U)

DESCRIPTIVE NOTE: FINAL PROGRESS REPT. 1 JUN 63-31 MAY  
69,

SEP 69 62P SONENSHINE, DANIEL E. I  
CONTRACT: DA-49-193-MD-2439

UNCLASSIFIED REPORT

DESCRIPTORS: (\*TICKS, ECOLOGY); (\*RICKETTSIA  
RICKETTSII, TICKS); EPIDEMIOLOGY, DISEASE  
VECTORS, DISEASES, UNITED STATES, PARASITES,  
MAMMALS, LIFE CYCLE, SERODIAGNOSIS, BIRDS,  
DOGS, PATHOLOGY, VIRGINIA, MORTALITY RATES  
IDENTIFIERS: ROCKY MOUNTAIN SPOTTED FEVER (U)

(U)

THE REPORT SUMMARIZES DATA OBTAINED ON THE  
OCCURRENCE OF INFECTION IN TICKS AND WILD VERTEBRATE  
HOSTS COLLECTED ACCORDING TO THE EXPERIMENTAL FIELD  
DESIGN DEVELOPED AND EXECUTED OVER A 4 YEAR PERIOD AT  
THE MONTPELIER STUDY AREA NEAR RICHMOND,  
VIRGINIA. IT ALSO INCLUDES CERTAIN NEW DATA ON  
THE OCCURRENCE OF ROCKY MOUNTAIN SPOTTED FEVER IN  
VIRGINIA, BASED UPON MEDICAL ANALYSIS CASE RECORDS  
REPORTED TO THE VIRGINIA STATE HEALTH  
DEPARTMENT AND THE EPIDEMIOLOGICAL SIGNIFICANCE OF  
THIS NEW DATA UPON THE ECOLOGICAL RESULTS OF OUR  
FIELD STUDIES AT THE MONTPELIER AREA AND ELSEWHERE.  
ALSO INCLUDED ARE SOME REPORTS OF LABORATORY  
INVESTIGATIONS DONE IN SUPPORT OF THE FIELD  
INVESTIGATIONS. INFECTION WITH ROCKY MOUNTAIN  
SPOTTED FEVER WAS FOUND IN 6 SPECIES OF TICKS NATIVE  
TO THE MONTPELIER STUDY AREA. DOMINANT IN  
IMPORTANCE WAS THE AMERICAN DOG TICK, DERMACENTOR  
VARIABILIS, IN WHICH THE ANNUAL INCIDENCE OF  
INFECTION VARIED BETWEEN 2.9% AND 4.4%.  
INFECTION WAS HIGHEST IN ADULTS (MEAN = 4.8%),  
LOWEST IN LARVAE (MEAN = 2.3%) OF THIS TICK.  
IN ADDITION, INFECTION WAS ALSO RECOGNIZED IN 4  
OTHER SPECIES OF TICKS NATIVE TO THE AREA, BUT  
APPARENTLY AT LOW INCIDENCE. SEROLOGICAL EVIDENCE  
OF INFECTION IN A NUMBER OF MAMMAL AND BIRDS SPECIES  
PROVIDES DATA FOR ASSESSING THE SEASONAL  
ASSOCIATIONS, VECTOR HOST INTERRELATIONSHIPS, AND  
POSSIBLE MEANS OF SPREAD OF THE ZOONOSIS UNDER  
NATURAL CONDITIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-695 845 6/17  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT)

HYALOMMA (HYALOMMINA) RHIPICEPHALOIDES NEUMANN  
(INDOIDEA: IXODIDEA): ITS IDENTITY, HOSTS, AND  
ECOLOGY, AND RICKETTSIA CONORI, R. PROWAZEKI,  
AND COXIELLA BURNETI INFECTIONS IN RODENT HOSTS IN  
EGYPT.

(U)

DESCRIPTIVE NOTE: TECHNICAL REP.

67 13P HOOGSTRAAL, HARRY S KAISER,  
MAKRAM N. BORMSBEE, RICHARD A. BOSBORN, DALE  
J. SHELBY, IBRAHIM I  
REPT. NO. NAMRU-3-TR-19-69  
PROJ: MR005.09-1402  
MONITOR: NAVMED MR005.09-1402-3

UNCLASSIFIED REPORT

AVAILABILITY: PUB. IN JNL. OF MEDICAL  
ENTOMOLOGY, V4 N4 P391-400, 20 NOV 67.

DESCRIPTORS: (\*TICKS, EGYPT), (\*RICKETTSIALES,  
\*DISEASE VECTORS), PARASITES, MICE, LARVAE,  
EPIDEMIOLOGY, COXIELLA BURNETII, RICKETTSIA,  
DISEASES, ECOLOGY, JORDAN

(U)

IDENTIFIERS: HOST PARASITE RELATIONS, \*HYALOMMA  
RHIPICEPHALOIDES

(U)

HYALOMMA (HYALOMMINA) RHIPICEPHALOIDES  
NEUMANN, 1901, DESCRIBED FROM 2 MALES COLLECTED IN  
EGYPT IN 1898, HAS OTHERWISE BEEN KNOWN ONLY FROM A  
FEW ADULTS AND SINGLE CAST LARVAL AND NYMPHAL SKINS  
TAKEN NEAR THE DEAD SEA. FROM A RELICT  
POPULATION OF THIS TICK RECENTLY FOUND IN 2 DESERT  
VALLEYS OF NE EGYPT, 373 IMMATURE AND 2 ADULT  
SPECIMENS WERE COLLECTED. SEVERAL TO 30 LARVAE AND  
NYMPHS CLUSTER ON THE LOWER THROAT AND CHEST OF SPINY  
MICE, CHIEFLY ON THE RELATIVELY ABUNDANT ACOMYS  
DIMIDIATUS MEGALODUS SETZER, ALSO ON A. RUSSATUS  
AEGYPTIACUS BONHOTE. IMMATURE STAGES INFEST THESE  
MICE FROM LATE WINTER TO LATE SUMMER; NONE WAS FOUND  
DURING FALL. INFESTATION RATE AND INDEX WERE  
GREATEST DURING HOT SUMMER MONTHS. ECOLOGY OF THE  
HABITATS NEAR THE RED SEA IS DESCRIBED.  
DESCRIPTIONS OF THE FEMALE NYMPH, AND LARVA ARE  
PROVIDED AS WELL AS KEYS TO ADULTS OF THE SUBGENUS  
HYALOMMINA OF THE WORLD. NEW RECORDS OF NYMPHS  
FROM ACOMYS RUSSATUS SUBSP. IN JORDAN ARE  
INCLUDED.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-699 687 6/12  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

TICKS OF THE SUPERFAMILY IXODOIDEA AND RICKETTSIA  
PROWAZEKI,

(U)

69 2P GROKHOVSKAYA, I. M.  
IGNATOVICH, V. F. ISIDOROV, V. E.  
MONITOR: NAMRU-3 TRANS-341

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF TEZISY DOKL. I.  
AKAROL. SOVESHCH., P74-75 1966.

DESCRIPTORS: (\*TICKS; \*RICKETTSIA PROWAZEKI),  
DISEASE VECTORS, INFECTIONS, PARASITES,

(U)

USSR  
IDENTIFIERS: TRANSLATIONS, \*IXODIDAE

(U)

THE FOLLOWING HAS BEEN STUDIED: THE  
SUSCEPTIBILITY OF THE SUPERFAMILY IXODOIDEA TO  
RICKETTSIA PROWAZEKI BY DIFFERENT MEANS OF  
INFECTION (FEEDING ON INFECTED GUINEA PIGS, FEEDING  
THROUGH MEMBRANE, AND INTRODUCTION OF RICKETTSIAE  
DIRECTLY INTO THE TICK BODY CAVITY), DURATION OF  
RICKETTSIAL PRESERVATION WITHIN THE BODY OF INFECTED  
TICKS, AND MECHANISM OF INFECTION TRANSMISSION BY  
TICKS TO HEALTHY ANIMALS. COMPARISON OF THE  
INFECTION IN TICKS BY DIFFERENT INTRODUCTION MEANS OF  
THE AGENT DEMONSTRATED THAT RICKETTSIAE CAN NOT ONLY  
BE INTRODUCED DURING A BLOODMEAL ON AN INFECTED  
ANIMAL BUT ALSO CAN LATER DEVELOP WITHIN THE TICK  
BODY. TICKS INFECTED WITH R. PROWAZEKI, DO NOT  
TRANSMIT THE LATTER TRANSDIVARILY TO THEIR PROGENY  
AND ALSO DO NOT INFECT LABORATORY ANIMALS DURING  
FEEDING. INFECTION WAS INDUCED IN ANIMALS ONLY BY  
SCARIFICATION OF SKIN INTO WHICH INFECTED TICKS (H.  
ASIATICUM) WERE CRUSHED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-699 B11 6/3  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

DISTRIBUTION OF NEUROSECRETORY CELLS IN THE CENTRAL  
NERVOUS SYSTEM OF DERMACENTOR PICTUS HERM. (U)

69 6P IOFFE, I. D. ;  
MONITOR: NAMRU-3 TRANS-326

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF AKADEMIYA NAUK SSSR.  
DOKLADY. V154 N1 P229-232 1964.

DESCRIPTORS: (\*TICKS, CENTRAL NERVOUS SYSTEM),  
(\*CENTRAL NERVOUS SYSTEM, CYTOLOGY),  
CELLS(BIOLOGY), PHYSIOLOGY, ANATOMY,  
GANGLIA, BRAIN, USSR (U)

IDENTIFIERS: TRANSLATIONS, \*DERMACENTOR  
PICTUS (U)

A STUDY WAS MADE OF THE NERVOUS SYSTEM IN  
DERMACENTOR PICTUS. TICKS WERE FIXED IN  
BOUIN'S FLUID AND STAINED WITH PARALDEHYDEFUCHSIN  
BY GABE'S METHOD AND WITH PARALDEHYDE-THIONINE BY  
PAGET'S METHOD, MODIFIED BY PANOV. ONLY UNFED  
TICKS WERE UTILIZED IN THIS WORK. WHEN APPLYING  
THESE STAINING METHODS, THE NEUROSECRETORY CELLS ARE  
CLEARLY DISTINGUISHED WITHIN THE NEURON MASS OF THE  
BRAIN IN D. PICTUS BY THE LARGER SIZE OF THEIR CELL  
BODIES AND PRESENCE WITHIN THEM OF A STAINING  
SECRETION. THE AVERAGE SIZE OF THE NEUROSECRETORY  
CELL BODIES IS 10 TO 12 MICRONS. MOST NUCLEI OF  
THE NEUROSECRETORY CELLS DO NOT VARY IN SIZE FROM  
ORDINARY NEURONS (5 TO 6 MICRONS). IN D.  
PICTUS, NEUROSECRETORY CELLS ARE FOUND IN ALL GANGLIA  
OF CENTRAL NERVOUS SYSTEM. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZORLC

AD-700 068 6/13

NAVAL MEDICAL RESEARCH UNIT NO 2 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

POSSIBLE RESERVOIRS OF RICKETTSIA PROWAZEKI IN  
NATURE.

(U)

69 1P DOI GOV, G. F. SUTOVA, G.  
M. IBALAEVA, N. M. IVYUKOV, V. N. ZHAMEVA,  
Z. M.;  
MONITOR: NAMRU-3 TRANS-325

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V45 N2 P150  
1968.

DESCRIPTORS: (\*RICKETTSIA PROWAZEKI;  
EPIDEMIOLOGY; DISEASE VECTORS; SERODIAGNOSIS;  
TICKS; BOVINES; ANTIGENS + ANTIBODIES;  
ANIMALS, USSR

(U)

IDENTIFIERS: TRANSLATIONS

(U)

IN RECENT YEARS THE APPEARANCE OF MANY WORKS HAS  
RAISED THE QUESTION OF REVISION OF THE ANTHROPOBOTIC  
CONCEPT OF EPIDEMIC TYPHUS FEVER. BY COMPLEMENT-  
FIXATION REACTIONS, WE TESTED ABOUT 1600 HEAD OF  
CATTLE, HORSES, AND SHEEP. SOME SERA WERE EXAMINED  
PARALLEL WITH THE WEIL-FELIX REACTION AND BY  
NEUTRALIZATION OF RICKETTSIAL TOXIC SUBSTANCES.  
OVER 400 TICKS (HYALOMMA ASIATICUM P. AND E.  
SCHL., H. PLUMBEUM PANZ., RHIPICEPHALUS  
TURANICUS B. POM., AND DERMACENTOR NUTTALLI  
O.I.) WERE ALSO COLLECTED AND TESTED VIROLOGICALLY.  
RESULTS OF SERUM ANALYSES AND TICK EXAMINATION IN  
KHAKASS WERE NEGATIVE. WE ALSO FAILED TO ISOLATE  
RICKETTSIA PROWAZEKI FROM TICKS IN KIRGIZIA.  
ANALYSIS OF ANIMAL SERA GAVE WEAK POSITIVE RESULTS  
IN DILUTIONS OF 1:10 IN 0.5-3% OF CASES. THUS,  
NO DATA WERE OBTAINED FOR THE PRESENCE OF NATURAL  
FOCI OF TYPHUS FEVER IN KHAKASS AND KIRGIZIA.  
(AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-700 082 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

COMPARISON OF INTERRELATIONSHIPS BETWEEN  
BLOODSUCKING ARTHROPODS AND RICKETTSIA PROWAZEKI,

(U)

69 2P GROKHOVSKAYA, I. M. ISIDOROV,  
V. F. ; KRYUCHECHNIKOV, V. N. IGNATOVICH, V.

F. ;

MONITOR: NAMRU-3 TRANS-310

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF INTERNATIONAL CONGRESS  
OF TROPICAL MEDICINE AND MALARIA, TEHERAN (IRAN)  
7-15 SEP 68. ABSTR. REV. 8 PH66-867 1968.

DESCRIPTORS: (\*TICKS; \*RICKETTSIA PROWAZEKI);  
DISEASE VECTORS; PARASITES; INFECTIONS; GUINEA  
PIGS; IRAN; USSR

(U)

IDENTIFIERS: TRANSLATIONS; IXODIDAE; ARGASIDAE;  
HOST PARASITE RELATIONS

(U)

THE SUSCEPTIBILITY AND DURATION OF RICKETTSIA IN  
THE BODY OF ARGASIDS (*ALECTOROBIVUS PAPILLIPES*, *O.*  
*MOUBATA*, AND *ALVEONASUS LAHORENSIS*) AND IXODIDS  
(*H. ASIATICUM*; *H. ANATOLICUM*, *H. DRUMEDARII*,  
*D. PICTUS*, *D. MARGINATUS*, *D. NUTTALLI*, AND *R.*  
*TURANICUS*) HAS BEEN STUDIED. THREE METHODS OF  
EXPERIMENTAL INFECTION WERE UTILIZED: FEEDING ON  
INFECTED ANIMALS, ON EPIDERMAL MEMBRANE, AND  
PARENTERAL INOCULATION OF INFECTIOUS MATERIAL.  
MANY IXODOIDEA PROVED TO BE SUSCEPTIBLE TO  
RICKETTSIA PROWAZEKI. WITHIN THE LIMITS OF EACH  
FAMILY STUDIED (ARGASIDAE AND IXODIDAE), NO  
SPECIFIC DIFFERENCES IN INTERRELATIONSHIPS BETWEEN  
TICKS AND RICKETTSIA PROWAZEKI WERE RECORDED.  
AMONG IXODID TICKS, MORE POSITIVE RESULTS WERE  
OBTAINED WITH *DERMACENTOR* THAN WITH *HYALOMMA*  
TICKS. THE ARGASID TICKS *ALECTOROBIVUS PAPILLIPES*  
AND *O. MOUBATA* ARE SUSCEPTIBLE TO RICKETTSIA IN ALL  
DEVELOPMENTAL STAGES OF METAMORPHOSIS, AND TRANSMIT  
THESE TRANSTADILLY. *ALECTOROBIVUS PAPILLIPES* AND  
*ALVEONASUS LAHORENSIS*, IN COMPARISON WITH *O.*  
*MOUBATA*, ARE MORE SUSCEPTIBLE TO RICKETTSIA  
PROWAZEKI. LONGER PERIODS OF RETENTION OF  
RICKETTSIA WERE RECORDED FOR THESE SPECIES.

RR  
UNCLASSIFIED

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/ZOHLC

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-700 084 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

STUDY OF POSSIBLE CIRCULATION OF RICKETTSIA  
PROWAZEKI IN NATURE.

(U)

69 2P DOLGOV, G. F. I.  
MONITOR: NAMRU-3 TRANS-311

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF INTERNATIONAL CONGRESS  
OF TROPICAL MEDICINE AND MALARIA, TEHERAN (IRAN)  
7-15 SEP 68. ABSTR. REV. 6 P868-869 1968.

DESCRIPTORS: (RICKETTSIA PROWAZEKI;  
EPIDEMIOLOGY), TICKS, SERODIAGNOSIS, BOVINES,  
SWINE, ANIMALS, USSR

(U)

IDENTIFIERS: TRANSLATIONS, IXODIDAE

(U)

THE WORK WAS CARRIED OUT BETWEEN 1964 AND 1968 IN 5  
CLIMATICALLY DIFFERENT REGIONS OF USSR - SOUTHERN  
SIBERIA, TYAN-SHAN, CENTRAL EUROPEAN PART OF  
RSFSR, CAUCASUS, AND MOLDAVIAN SSR. MOST  
SEROLOGICAL INVESTIGATIONS WERE MADE BY COMPLEMENT  
FIXATION REACTION (CF) TESTS WITH RICKETTSIA  
PROWAZEKI UNDILUTED ANTIGEN, AND VIROLOGICAL TESTS BY  
PASSAGE OF INVESTIGATED MATERIAL IN GUINEA PIGS AND  
IN THE YOLK-SAC OF CHICK EMBRYOS. ABOUT 4500  
ANIMAL SERA WERE EXAMINED (CATTLE, HORSES, PIGS,  
SHEEP, AND ZEBUS) AND 400 IXODID TICKS.  
INVESTIGATIONS WERE MADE AT THE PEAK OF TICK  
ACTIVITY (SPRING), AND IN ONE REGION (MOLDAVIAN  
SSR) THROUGHOUT THE YEAR. (AUTHOR)

(U)

64

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-700 088 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

STUDY OF ABILITY OF HAEMAPHYSALIS JAPONICA DOUGLASI  
NUTT. AND WARBL. AND HAEMAPHYSALIS NEUMANNI D.  
TO ASSIMILATE RICKETTSIAE UNDER EXPERIMENTAL  
CONDITIONS, (U)

69 4P BELIKOVA, N. P. ISOMOV, G.  
P. I MONITOR: NAMRU-3 TRANS-317

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF AKADEMIYA NAUK SSSR.  
DOKLADY, V179 N4 P981-983 1967.

DESCRIPTORS: (\*TICKS, \*RICKETTSIA), DISEASE  
VECTORS, PARASITES, INFECTIONS, LIFE CYCLE,  
LARVAE, NYMPH, GUINEA PIGS, USSR (U)

IDENTIFIERS: TRANSLATIONS, \*HAEMAPHYSALIS  
JAPONICA, \*HAEMAPHYSALIS NEUMANNI (U)

THE NATURAL INFECTION OF HAEMAPHYSALIS JAPONICA  
DOUGLASI N.W. WITH THE AGENT OF TICKBORNE  
RICKETTSIOSIS IN PRIMOR'YE REGION WAS DEMONSTRATED.  
EXPERIMENTS WERE DESIGNED TO DETERMINE RICKETTSIAL  
ABSORPTION BY TICKS DURING A BLOODMEAL, THE  
TRANSMISSION OF RICKETTSIAE DURING METAMORPHOSIS, AND  
THE ABILITY OF SUBSEQUENT GENERATIONS TO CAUSE  
INFECTION IN SUSCEPTIBLE ANIMALS. VERIFICATION OF  
THE ABILITY OF H. JAPONICA DOUGLASI AND H.  
NEUMANNI TO ASSIMILATE RICKETTSIAE AT VARIOUS PERIODS  
OF BLOODSUCKING WAS MADE BY MEANS OF INTRAPERITONEAL  
INFECTION OF GUINEA PIGS WITH A SUSPENSION FROM  
ENGORGED TICKS. EXPERIMENTS SHOWED THAT H.  
JAPONICA DOUGLASI ARE ABLE TO ASSIMILATE THE AGENT OF  
TICKBORNE RICKETTSIOSIS DURING A BLOODMEAL AND TO  
TRANSMIT IT DURING THE METAMORPHOSIS PROCESS TO THE  
NEXT GENERATIONS. THESE DATA ALLOWED US TO  
CONCLUDE THAT H. JAPCNICA DOUGLASI PARTICIPATES IN  
THE CIRCULATION OF TICKBORNE RICKETTSIOSIS AGENT IN  
PRIMOR'YE REGION AND SHOULD BE CONSIDERED AS A  
VECTOR OF THIS INFECTION. MOST H. NEUMANNI  
FEMALES THAT FED ON INFECTED GUINEA PIGS DID NOT  
REACH THE NECESSARY DEGREE OF ENGORGEMENT AND DIED  
WITHOUT OVIPOSITING, OR PRODUCED A SMALL NUMBER OF  
LARVAE. ADULTS OF THIS TICK SPECIES SLIGHTLY  
ASSIMILATE RICKETTSIAE DURING BLOODSUCKING ON  
INFECTED GUINEA PIGS.

65 (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-700 089 6/13  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT), DEPT OF  
MEDICAL ZOOLOGY

IXODOIDEA TICKS AND RICKETTSIA PROWAZEKI, (U)

69 12P GROKHOVSKAYA, I. M. ;  
IGNATOVICH, V. F. ISIDOROV, V. E. ;  
MONITOR: NAMRU-3 TRANS-718

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MONO. BIOLOGICHESKIE  
VZAIMOOTNOSHENIYA KROVOSOSUSHCHIKH CHLENISTONOGIKH S  
VOZBUDITELYAMI BOLEZNEJ CHELOVEKA, MOSCOW, 1967  
P126-142.

DESCRIPTORS: (\*TICKS, \*RICKETTSIA PROWAZEKI),  
DISEASE VECTORS, PARASITES, INFECTIONS, GUINEA  
PIGS, LIFE CYCLE, USSR, EPIDEMIOLOGY (U)

IDENTIFIERS: \*IXODIDAE, TRANSLATIONS, HOST  
PARASITE RELATIONS, ARGASIDAE (U)

OUR INVESTIGATION WAS MADE WITH THE AIM OF GIVING A  
MORE PRECISE DEFINITION TO THE QUESTION OF THE  
POTENTIAL POSSIBILITIES OF MAINTAINING AND  
TRANSMITTING R. PROWAZEKI BY TICKS. WE STUDIED  
THE SUSCEPTIBILITY OF TICKS OF THE SUPERFAMILY  
IXODOIDEA TO R. PROWAZEKI BY THE COMPARATIVE  
METHOD. WE EMPLOYED 3 METHODS FOR TICK INFECTION:  
(1) FEEDING TICKS ON INFECTED ANIMALS; (2)  
FEEDING TICKS THROUGH AN ABDOMINAL MEMBRANE ON BLOOD  
MIXED WITH RICKETTSIAL CULTURE; (3) INJECTING  
R. PROWAZEKI DIRECTLY INTO THE TICK BODY CAVITY.  
USE OF THESE METHODS ALLOWED US TO OBSERVE THE  
DISTRIBUTION PECULIARITIES AND RICKETTSIAL  
ACCUMULATION IN VARIOUS TICK SPECIES, AND ALSO TO  
FOLLOW THE DURATION OF RICKETTSIAL SURVIVAL WITHIN  
THE TICK BODY BY USING DIFFERENT METHODS OF  
INFECTION. TESTS ALSO WERE MADE TO ELUCIDATE THE  
MECHANISM OF INFECTION OF HEALTHY ANIMALS BY TICKS  
AND THE POSSIBILITY OF TRANSOVARIAL TRANSMISSION IN  
TICKS. INVESTIGATION WAS MADE ON LABORATORY REARED  
TICKS OF THE FAMILIES IXODIDAE AND ARGASIDAE,  
WHICH HAD REPEATEDLY BEEN CHECKED FOR R. PROWAZEKI,  
R. BURNETI, AND R. SIBERICUS INFECTION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-700 149 6/6  
UTAH UNIV SALT LAKE CITY ECOLOGY AND EPIZOOLOGY RESEARCH GROUP

A STUDY OF THE ECOLOGY AND EPIZOOLOGY OF THE NATIVE FAUNA OF THE GREAT SALT LAKE DESERT-1968. (U)

DESCRIPTIVE NOTE: ANNUAL SUMMARY REVIEW.

MAY 69 24BP

REPT. NO. ECOLOGY AND EPIZOOLOGY SER-145

CONTRACT: DA-42-007-AMC-227(R), DAAD09-69-C-0030

PROJ: DA-1-X-6657-XXD-634

TASK: 1-X-6657XXD-63407

UNCLASSIFIED REPORT

DESCRIPTORS: (\*ECOLOGY, \*UTAH), (\*EPIDEMIOLOGY, ANIMALS), RODENTS, BIRDS, MAMMALS, POPULATION, TICKS, ARBOVIRUSES, RICKETTSIA, COXIELLA BURNETII, CHLAMYDIA, PASTEURELLA PESTIS, PASTEURELLA TULARENSIS, PARASITES, DISEASE VECTORS (U)

DURING 1968 A TOTAL OF 5,073 VERTEBRATES WERE COLLECTED FROM THE STUDY AREAS AND PROCESSED FOR DISEASE ANALYSIS. INCLUDED IN THIS TOTAL WERE 3,104 RODENTS, 1,425 OTHER MAMMALS, AND 544 BIRDS. IN ADDITION 6,699 ECTOPARASITES ASSOCIATED WITH THESE ANIMALS WERE ALSO COLLECTED AND PROCESSED. THIS TOTAL WAS MADE UP OF 2,716 TICKS, 3,091 FLEAS, 474 MITES AND 418 LICE. ALSO COLLECTED AND TESTED WERE 674 DEERFLIES AND 200 BLOOD-SUCKING GNATS. TOPICS DISCUSSED INCLUDE: ECOLOGICAL INVESTIGATIONS OF THE NATIVE FAUNA; DISEASE ECOLOGY INVESTIGATIONS; IMPROVEMENT OF DIAGNOSTIC TECHNIQUES RESEARCH; AND FAUNAL DEVELOPMENT. (U)

67

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/ZOHLC

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-702 329 6/1 6/17  
ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER WASHINGTON D C

THE EFFECT OF INFESTATION WITH RICKETTSIA COXIELLA BURNETI AND DERMACENTROXENUS SIBIRICUS ON THE CONTENT OF FREE AMINO ACIDS IN THE TICK HYALOMMA ASIATICUM (BLIYANIE INFITSIROVANIYA RIKKETSIYAMI COXIELLA BUKNETI I DERMACENTROXENUS SIBIRICUS NA SODEEZHANIE SVOBODNYKH AM AMINOKISLOT);

(U)

FEB 70 12P BALASHOV, YU. S. IDAITER, A.  
B. ISTANYUKOVICH, A. K.;  
REPT. NO. FSTC-HT-23-418-70  
PROJ: FSTC-04231002301

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF PARAZITOLOGIYA (USSR) V3  
N4 P281-286 1969.

DESCRIPTORS: (\*AMINO ACIDS, TICKS), (\*TICKS,  
\*RICKETTSIACEAE), COXIELLA BURNETII, INFECTIONS,  
CHROMATOGRAPHIC ANALYSIS, DISEASE VECTORS,  
PARASITES, USSR

(U)

IDENTIFIERS: TRANSLATIONS; DERMACENTROXENUS  
SIBIRICUS, \*HYALOMMA ASIATICUM

(U)

THE CONTENT OF FREE AMINO ACIDS IN HOMOGENATES OF UNFED ADULT HYALOMMA ASIATICUM WAS STUDIED BY FINE-LAYER, TWO-DIMENSIONAL CHROMATOGRAPHY IN SILICA GEL KCK. INDIVIDUALS INFESTED WITH AND FREE FROM RICKETTSIA C. BURNETI AND D. SIBITICUS WERE EXAMINED. 25 NYNHDRIN-POSITIVE SMEARS WERE RECOGNIZED ON ACIDS: ASPARTIC ACID, GLUTAMINE ACID WITH LYSINE AND ORNITHINE, ATGININE, SERINE, GLYCINE, ASPARAGINE, BETA-ALANINE, HYDROXYPOLINE, HYSTIDINE, THREONINE, ALPHA-ALANINE, TYROSINE, VALINE, LEUCINE WITH ISOLEUCINE AND METHIONINE, PHENYLALANINE, TRYPTOPHAN. CONSTANT DIFFERENCES EXISTED BETWEEN MALES AND FEMALES IN THE CONTENT OF FREE AMINO ACIDS. IT WAS ESTABLISHED THAT IN TICKS INFESTED WITH RICKETTSIA THE CONTENT OF ALPHA-ALANINE IS CONSIDERABLY DECREASED, THE CONTENT OF ONE OF THE UNIDENTIFIED NYNHDRIN-POSITIVE COMPONENTS IS INCREASED AND CONCENTRATIONS OF SOME OTHER AMINO ACIDS ARE CHANGED SLIGHTLY. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-704 248 6/12  
NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT)

EVIDENCE FOR EXTRA-HUMAN EPIDEMIC TYPHUS IN THE  
WILD ANIMALS OF EGYPT. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,  
68 9P ORMSBEE, R. A. SHOOGSTRAAL,  
H. IYOUSSEF, L. B. SHILDEBRANDT, P. SATALLA,  
WAGIH;  
REPT. NO. NAMRU-3-TR-36-69

UNCLASSIFIED REPORT  
AVAILABILITY: PUB. IN JNL. OF HYGIENE,  
EPIDEMIOLOGY, MICROBIOLOGY AND IMMUNOLOGY 1968.

DESCRIPTORS: (\*RICKETTSIA, EPIDEMIOLOGY),  
(\*ANIMALS, RICKETTSIA), DISEASES, RICKETTSIA,  
RICKETTSIA PROWAZEKI, AGGLUTININS, SERO DIAGNOSIS,  
ANTIGENS + ANTIBODIES, TICKS, COXIELLA BURNETII,  
RICKETTSIACEAE, PARASITES, EGYPT (U)

LOW LEVELS OF TYPHUS GROUP AGGLUTININS WERE FOUND  
IN A HIGH PERCENTAGE OF THE SERA OF WILD ANIMALS IN  
EGYPT. IN ONLY 3 CASES HOWEVER COULD AN  
UNEQUIVOCAL DIAGNOSIS OF SPECIFIC EPIDEMIC TYPHUS  
ANTIBODIES BE MADE. EFFECTS TO ISOLATE R.  
PROWAZEKI FROM THE TISSUES OF WILD ANIMALS AND TICKS  
WERE UNSUCCESSFUL. AGGLUTININS WITH TITERS OF >  
OR = 1:8 AGAINST C. BURNETI OR R. CONORI WERE  
FOUND IN 1 TO 2% OF EGYPTIAN WILD ANIMAL SERA.  
ATTEMPTS TO INFECT DOMESTIC ANIMALS INCLUDING  
CAMELS, DONKEYS, SHEEP AND GOATS WITH R. PROWAZEKI  
PRODUCED TRANSIENT RISES IN SPECIFIC AGGLUTININS BUT  
DID NOT RESULT IN DETECTABLE RICKETTSIAS OR IN  
DISEASE. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-706 592 6/13

NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT) DEPT OF  
MEDICAL ZOOLOGY

CONTRIBUTION TO THE CHARACTERISTICS OF TICKBORNE  
RICKETTSIOSIS IN SOUTHEASTERN TURKMENIA. (U)

70 9P KULAGIN,S. M. ;ZHMAEVA,Z.  
M. ISHEKHANOV,M. V. ;PCHELKINA,A. A. ;  
MONITOR: NAMRU-3 TRANS-280

UNCLASSIFIED REPORT

PORTIONS OF THIS DOCUMENT ARE NOT FULLY LEGIBLE.  
SUPPLEMENTARY NOTE: TRANS. OF ZHURNAL MIKROBIOLOGII,  
EPIDEMIOLOGII I IMMUNOBIOLOGII (USSR) V28 N7 P114-121  
1957.

DESCRIPTORS: (\*RICKETTSIA, EPIDEMIOLOGY),  
DISEASE VECTORS, TICKS, RODENTS, PARASITES,  
INFECTIOUS DISEASES, SIPHONAPTERA, LIFE CYCLE,  
LARVAE, USSR (U)

IDENTIFIERS: TRANSLATIONS (U)

THE PRESENCE OF NATURAL RICKETTSIAL INFECTION IN  
H. ASIATICUM TICKS IN NATURE IN A SOUTHEASTERN  
REGION IN TURKMENIA WAS ESTABLISHED. THREE  
RICKETTSIAL STRAINS PROVED TO BE PATHOGENIC FOR  
GUINEA PIGS, WHITE RATS, YOUNG WHITE MICE, AND CHICK  
EMBRYOS. THE RICKETTSIAE MORPHOLOGICALLY CLOSELY  
RELATED TO DERMACENTROXENUS SIBIRCUS, THE AGENT OF  
NORTH ASIAN TICKBORNE RICKETTSIOSIS,  
DERMACENTROXENUS MURINUS, THE AGENT OF  
RICKETTSIALPOX, AND DERMACENTROXENUS CONORI, THE  
AGENT OF MARSEILLES SPOTTED FEVER. MEANWHILE,  
THEY DIFFERED FROM THESE SPECIES IN THE ABUNDANCE OF  
INTRANUCLEAR RICKETTSIAE WHICH WERE PRACTICALLY FOUND  
IN EACH GUINEA PIG WITH PRONOUNCED CHANGES IN THE  
TESTICULAR MEMBRANE. THIS HAS NOT BEEN OBSERVED IN  
OTHER TICKBORNE RICKETTSIOSIS INFECTIONS FOUND IN THE  
USSR. WHITE MICE WEIGHING 11 G OR MORE WERE  
NONsusceptible TO THE RICKETTSIAE. AS IS KNOWN,  
RICKETTSIAL PERITONITIS DEVELOPS IN MICE IN CASES OF  
PERITONEAL INFECTION WITH AGENTS OF NORTH ASIAN  
TICKBORNE RICKETTSIOSIS, MARSEILLES FEVER, AND  
RICKETTSIALPOX. RICKETTSIAE ISOLATED FROM EGG  
CULTURES WERE SIMILAR TO THOSE OF THE TICKBORNE  
SPOTTED FEVER AGENT GROUP, BUT THEY ALSO RETAINED  
THEIR PROPERTY TO AFFECT CELL NUCLEI ON A WIDE SCALE.  
THIS TENDENCY TO INTRA NUCLEAR MULTIPLICATION VERY  
CLOSELY RESEMBLED DERMACENTROXENUS RICKETTSI, THE  
AGENT OF TICKBORNE ROCKY MOUNTAIN SPOTTED FEVER.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

AD-712 566 2/5 6/13  
WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

INVESTIGATION OF A NEW DISEASE OF MILITARY DOGS,

(U)

TO IIP NIMS, ROBERT M. JHUXSOLL,  
DAVID L. BILDERBRANDT, PAUL K. WALKER, JERRY  
S. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (\*DOGS, \*DISEASES), (\*VETERINARY MEDICINE, DOGS), (\*RICKETTSIACEAE, DISEASES), HEMORRHAGE, ANEMIAS, LEUKOCYTES, HEMATOLOGY, FEVERS, PATHOLOGY, HISTOLOGY, INFECTIONS, CHEMOTHERAPY, TETRACYCLINES, BLOOD DISEASES, ETIOLOGY, INFECTIOUS DISEASES, DISEASE VECTORS, TICKS, MILITARY MEDICINE, SOUTHEAST ASIA  
IDENTIFIERS: \*TROPICAL CANINE PANCYTOPENIA, \*EHRlichia canis

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IN JULY 1968, AN EPIZOOTIC OF A FATAL HEMORRHAGIC DISEASE, CHARACTERIZED BY UNILATERAL OR BILATERAL EPISTAXIS, BEGAN IN U. S. MILITARY DOGS IN SOUTHEAST ASIA. THE DISEASE APPEARED TO BE THE SAME AS TROPICAL CANINE PANCYTOPENIA (TCP) DESCRIBED BY THE BRITISH IN MILITARY DOGS IN SINGAPORE AS EARLY AS 1963, AND WAS SIMILAR TO A DISEASE REPORTED BY THE FRENCH IN MILITARY DOGS IN TUNISIA. A COORDINATED INVESTIGATION OF THE DISEASE WAS INITIATED WITH THE OBJECTIVE OF DETERMINING THE CAUSE AND NATURE OF THE DISEASE AND MEANS OF CONTROL. THE RESULTS FROM THESE INVESTIGATIONS ARE SUMMARIZED IN THIS REPORT.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZOHLC

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WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

TROPICAL CANINE PANCYTOPENIA.

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TO 6P HUXOLL,DAVID L.;  
HILDEBRANDT,PAUL K. INIMS,ROBERT M. WALKER,  
JERRY S. I

UNCLASSIFIED REPORT  
AVAILABILITY: PUB. IN JNL. OF THE AMERICAN  
VETERINARY MEDICAL ASSOCIATION, V157 N11 P1627-1632,  
1 DEC 70.

DESCRIPTORS: •INFECTION DISEASES, DOGS),  
•ANEMIAS, DOGS), •VETERINARY MEDICINE,  
TROPICAL REGIONS); RICKETTSIACEAE, DISEASES,  
HEMORRHAGE, HEMATOLOGY, PATHOLOGY, HISTOLOGY,  
INFECTIONS, ETIOLOGY, DISEASE VECTORS, TICKS,  
DIAGNOSIS, SOUTHEAST ASIA

(U)

IDENTIFIERS: •PANCYTOPENIA; •TROPICAL CANINE  
PANCYTOPENIA; •EHRLICHIA CANIS

(U)

TROPICAL CANINE PANCYTOPENIA (TCP) IS A NEWLY  
RECOGNIZED DISEASE OF DOGS IN DIVERSE TROPICAL AND  
SUBTROPICAL AREAS. THE DISEASE HAS BEEN  
RESPONSIBLE FOR THE DEATH OF LARGE NUMBERS OF  
MILITARY DOGS IN SOUTHEAST ASIA. UNILATERAL OR  
BILATERAL EPISTAXIS IS THE MOST DRAMATIC CLINICAL  
SIGN OF THE DISEASE. COAGULATION TIME AND  
PROTHROMBIN TIME ARE NORMAL; HOWEVER, BLEEDING TIME  
IS PROLONGED. AFFECTED DOGS DEVELOP SEVERE ANEMIA,  
LEUKOPENIA, AND THROMBOCYTOPENIA. A LARGE NUMBER OF  
DOGS AND WITH SIMILAR HEMATOLOGIC SIGNS BECOME  
PROGRESSIVELY DEBILITATED AND DIE WITHOUT MANIFESTING  
OVERT EPISTAXIS. NECROPSY FINDINGS CONSIST OF  
LYMPHADENOPATHY AND PETECHIAL AND ECCHYMOTIC  
HEMORRHAGES ON SEROSAL AND MUCOSAL SURFACES OF  
NUMEROUS ORGANS AND IN SUBCUTANEOUS TISSUES. THE  
MOST PROMINENT HISTOLOGIC FINDING IS PERIVASCULAR  
INFILTRATION OF PLASMA CELLS IN NUMEROUS ORGANS.  
CYTOPLASMIC INCLUSIONS IDENTICAL TO THOSE DESCRIBED  
FOR EHRLICHIA CANIS HAVE BEEN FOUND IN MONONUCLEAR  
CELLS IN CAPILLARY BLOOD SMEARS AND IN IMPRESSION  
SMEARS PREPARED FROM TISSUES OF NATURALLY AND  
EXPERIMENTALLY INFECTED DOGS. HEAVY TICK  
INFESTATIONS HAVE BEEN ASSOCIATED WITH EPIZOOTICS OF  
TROPICAL CANINE PANCYTOPENIA. EFFECTIVE MEANS OF  
TREATMENT OF THE DISEASE HAVE NOT BEEN DEVELOPED.

(AUTHOR)

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NAVAL MEDICAL RESEARCH UNIT NO 3 FPO NEW YORK 09527

BIOCHEMICAL AND PHYSIOLOGICAL STUDIES OF  
CERTAIN TICKS (IXODOIDEA). GONAD  
DEVELOPMENT AND GAMETOGENESIS IN ARGAS  
(PERSICARGAS) ARBOREUS KAISER, HOOGSTRAAL,  
AND KOHLS (ARGASIDAE).

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JUN 69 24P KHALIL, GALILA M.  
REPT. NO. NAMRU-3-TR-1-71  
PROJ: MF12.514.009

UNCLASSIFIED REPORT  
AVAILABILITY: PUB. IN THE JNL. OF PARASITOLOGY,  
V55 N6 P1278-1297.

DESCRIPTORS: (\*TICKS,  
\*REPRODUCTION(PHYSIOLOGY)), REPRODUCTIVE SYSTEM,  
PHYSIOLOGY, LIFE CYCLE, LARVAE, DISEASE VECTORS,  
VIRUS DISEASES, RICKETTSIA, DISEASES,  
BIOCHEMISTRY, NYMPH, GROWTH

(U)

IDENTIFIERS: \*ARGAS ARBOREUS

(U)

IN ARGAS ARBOREUS, GERMINAL DIFFERENTIATION BEGINS WHEN LARVAE FEED AND GONAD FORMATION BEGINS IN FED, FIRST-INSTAR NYMPHS. FEMALES, WHICH USUALLY MOLT FROM THIRD- OR FOURTH-INSTAR NYMPHS, HAVE 1 OVARY WITH 1 ANTERIOR AND 2 LATERAL GERMINATIVE ZONES, 2 DIVIDED OVIDUCTS, 1 UTERUS, 1 DIVIDED VAGINA, AND 2 ACCESSORY GLANDS. A FIRST GROWTH PHASE DURING INTERPHASE, WHICH FOLLOWS DIAKINESIS, ENDS WHEN THE PRIMARY OOCYTE DIAMETER IS 100 MICRONS. A SECOND GROWTH PHASE, INCLUDING VITELLOGENESIS AND SHELL FORMATION, BEGINS ONLY AFTER FERTILIZATION AND FEEDING. MALES, WHICH USUALLY MOLT FROM SECOND-INSTAR NYMPHS, HAVE 1 BI-LATERALLY SYMMETRICAL TESTIS WITH 2 GERMINATIVE ZONES, 1 EJACULATORY DUCT, AND 1 14-LOBED ACCESSORY GLAND. FOUR SPERMATOGONIAL DIVISIONS RESULT IN 16 PRIMARY SPERMATOCYTES PER GERMINAL CYST. SPERMIATION INCLUDES AN EXTENSIVE GROWTH PHASE AND FORMATION OF A HIGHLY FOLDED CYTOPLASMIC MEMBRANE FOLLOWING DIAKINESIS IN PRIMARY SPERMATOCYTES. TWO MEIOTIC DIVISIONS RESULT IN 64 SPHERICAL SPERMATIDS WHICH UNDERGO A SECOND SPERMIATION PHASE INCLUDING MORPHOLOGICAL TRANSFORMATION. MOST SPERMS REACH THE OVARY AND PENETRATE THE PRIMARY OOCYTES WHERE THEIR CYTOPLASM DEGENERATES AND THE NUCLEUS FORMS A MALE ZONE. THE TERM SPERMATIDS AND SPERMS ARE CONSIDERED MORE APPROPRIATE THAN PROSPERMS OR SPERMIOPHORES.

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AD-845 898 6/17 6/3  
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EXISTENCE OF PREMUNITION IN NATURAL OR  
EXPERIMENTAL RICKETTSIOSIS OF THE DOG,

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JUL 68 6P DONATIEN,A. ILESTOQUARD,F. I  
REPT. NO. TRANS-271

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF SOCIETE DE PATHOLOGIE  
EXOTIQUE, BULLETIN (FRANCE) V29 P378-383 1976.

DESCRIPTORS: (\*DOGS, RICKETTSIA), ALGERIA,  
RICKETTSIALES, DIAGNOSIS, VIRUSES, TICKS,

(U)

IDENTIFIERS: INOCULATION, TRANSLATIONS

(U)

IN THE MEETING OF 12 JUNE 1975 OF THE SOCIETE  
DE PATHOLOGIE EXOTIQUE, THE EXISTENCE IN  
ALGERIA OF A PATHOGENIC RICKETTSIA OF THE DOG,  
WAS NOTED AND THE NAME RICKETTSIA CANIS PROPOSED.  
THIS PARASITE IS VERY FREQUENT IN ALGERIA, AND IS  
TRANSMITTED NATURALLY BY THE TICK RHIPICIPHALUS  
SANGUINEUS, WHICH IS INFECTIOUS AT EVERY STAGE, AND  
AMONG WHICH THE VIRUS IS HEREDITARY. THIS TICK IS,  
IN ALGERIA, VERY FREQUENT FROM APRIL TO  
OCTOBER. IT IS CALLED 'THE DOG TICK' BECAUSE IT  
HAS A MARKED PREDISPOSITION FOR THIS SPECIES.  
OBSERVATIONS AND EXPERIMENTS, SHOW THAT: (1)  
R. CANIS REMAINS IN THE ORGANISM A LONG WHILE (5  
MONTHS OR LESS) AFTER THE CLINICAL CURE OF AN ACUTE  
ATTACK (NATURAL OR EXPERIMENTAL); AND (2)  
ANIMALS CURED OF AN ACUTE ATTACK ENDURE A  
REINOCULATION WITHOUT PRESENTING ANY MORBID SYMPTOMS.

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CORPORATE AUTHOR - MONITORING AGENCY

\*ARMY BIOLOGICAL CENTER FREDERICK MD

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AD-642 487

\*ARMY BIOLOGICAL LABS FREDERICK MD

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VIRUS  
AD-292 481

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ON THE RESULTS OF WORK BY THE  
EPIDEMIOLOGICAL DIVISION OF THE  
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AD-676 343

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AD-676 344

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AD-673 304

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CLINICAL CHARACTERISTICS OF THE  
TICK TYPHUS OF NORTHERN ASIA,  
AD-676 945

TRANS-92  
ON THE DISSEMINATION OF THE  
DERMACENTOR TICK,  
AD-676 981

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TRANS-420  
EXPERIMENTAL STUDY OF  
DERMACENTOR MARGINATUS SULZ. AND  
RHIPICEPHALUS ROSSICUS JAK. ET X.  
JAK. TICKS AS VECTORS OF TULAREMIA

(EKSPERIMENTALNOE IZUCHENIE  
KLESHCHEI DERMACENTOR MARGINATUS  
SULZ. I RHIPICEPHALUS ROSSICUS JAK.  
ET X. JAK. KAK PERENOSCHIKOV  
TULYAREMITA),  
AD-676 959

TRANSLATION-1297  
NATURAL FOCUS OF TSUTSUGAMUSHI  
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(TT-65-63607)  
AD-620 501

\*ARMY FOREIGN SCIENCE AND TECHNOLOGY  
CENTER WASHINGTON D C

FSTC-HT-23-418-70  
THE EFFECT OF INFESTATION WITH  
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AH AMINOKISLOTI),  
AD-702 329

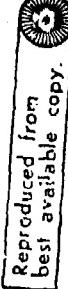
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WASHINGTON D C

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HYALOMMA (HYALOMYNA)  
RHIPICEPHALOIDES NEUMANN (INDOIDEA)  
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AD-612 870

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\* MARYLAND UNIV COLLEGE PARK DEPT OF  
ZOOLOGY

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AD-664 291

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AD-670 954

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NAVAL MEDICAL RESEARCH INST BETHESDA MD

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NAVAL MEDICAL RESEARCH UNIT NO 3 CAIRO (EGYPT)

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NEW YORK 09327

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\*OLD DOMINION COLL NORFOLK VA

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\*UTAH UNIV SALT LAKE CITY ECOLOGY AND  
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\*WALTER REED ARMY INST OF RESEARCH  
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